

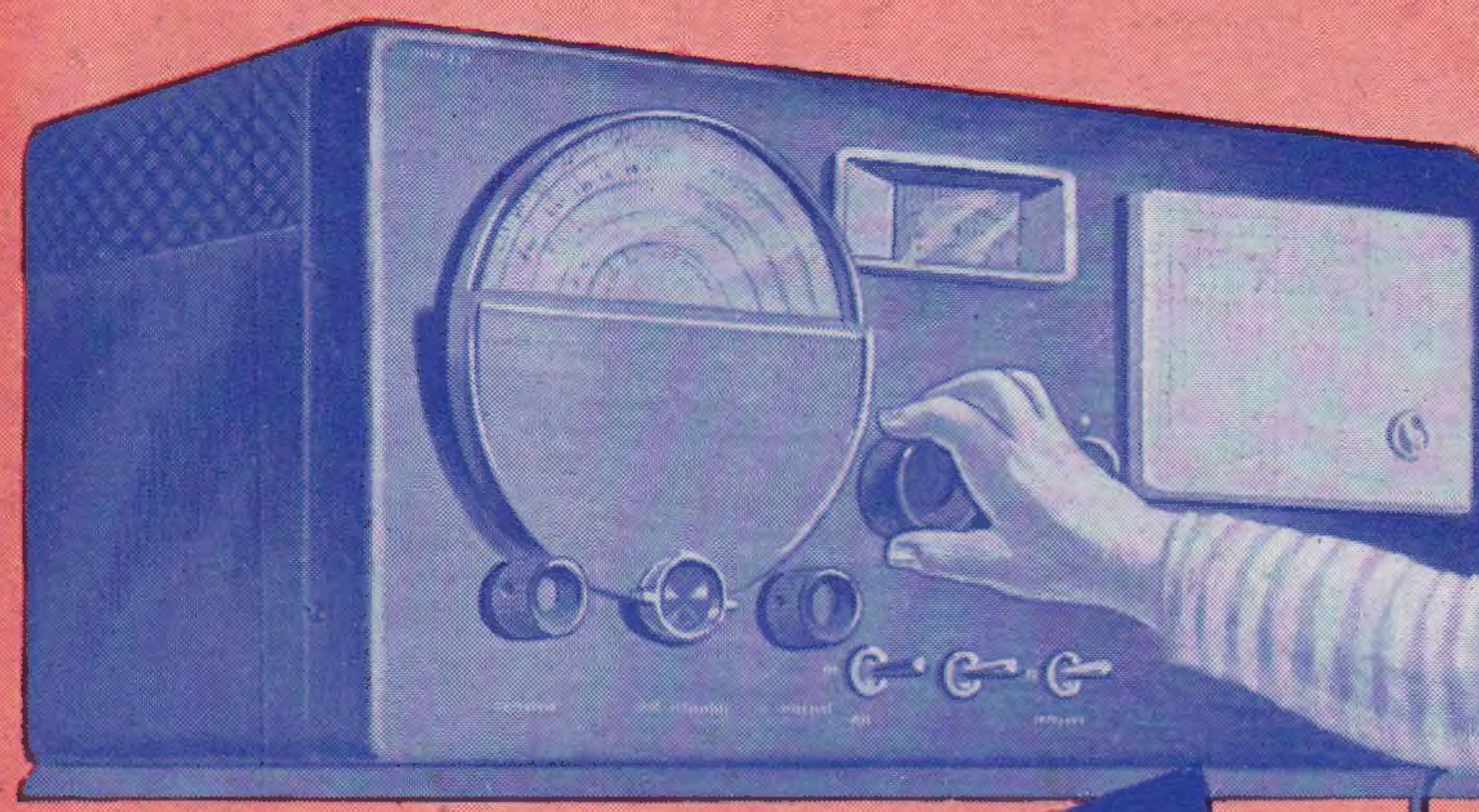
Radio
AMATEUR
Call Book Magazine

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FALL, 1947



what's the **a-b-c**
of a **cq**?

First thing a ham learns—and none too soon—is that his equipment must be *dependable*. And the first capacitor name he learns for *proven* dependability is naturally . . . CORNELL-DUBILIER, the world's finest. No other make enjoys such wide confidence among hams from W1 to WØ . . . for *extra* performance, *absolute* reliability, and *dollar-for-dollar* savings. Old timers and novice CQ's, too, tell us why they wouldn't swap a good C-D capacitor for a bucket-full of bargain counter "specials" or "all-purpose-war-surplus." They know that every C-D they buy will fit perfectly, and give every penny of service they pay for.

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Mica types for power amplifiers and low-power transmitters. Best used for grid and plate blocking and r.f. by-pass functions.



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Write today for your **FREE** copy of Catalog 195A describing dependable C-D capacitors for every ham rig and budget. Send a penny postcard to: Cornell-Dubilier Electric Corp., Dept. JH, South Plainfield, N.J.

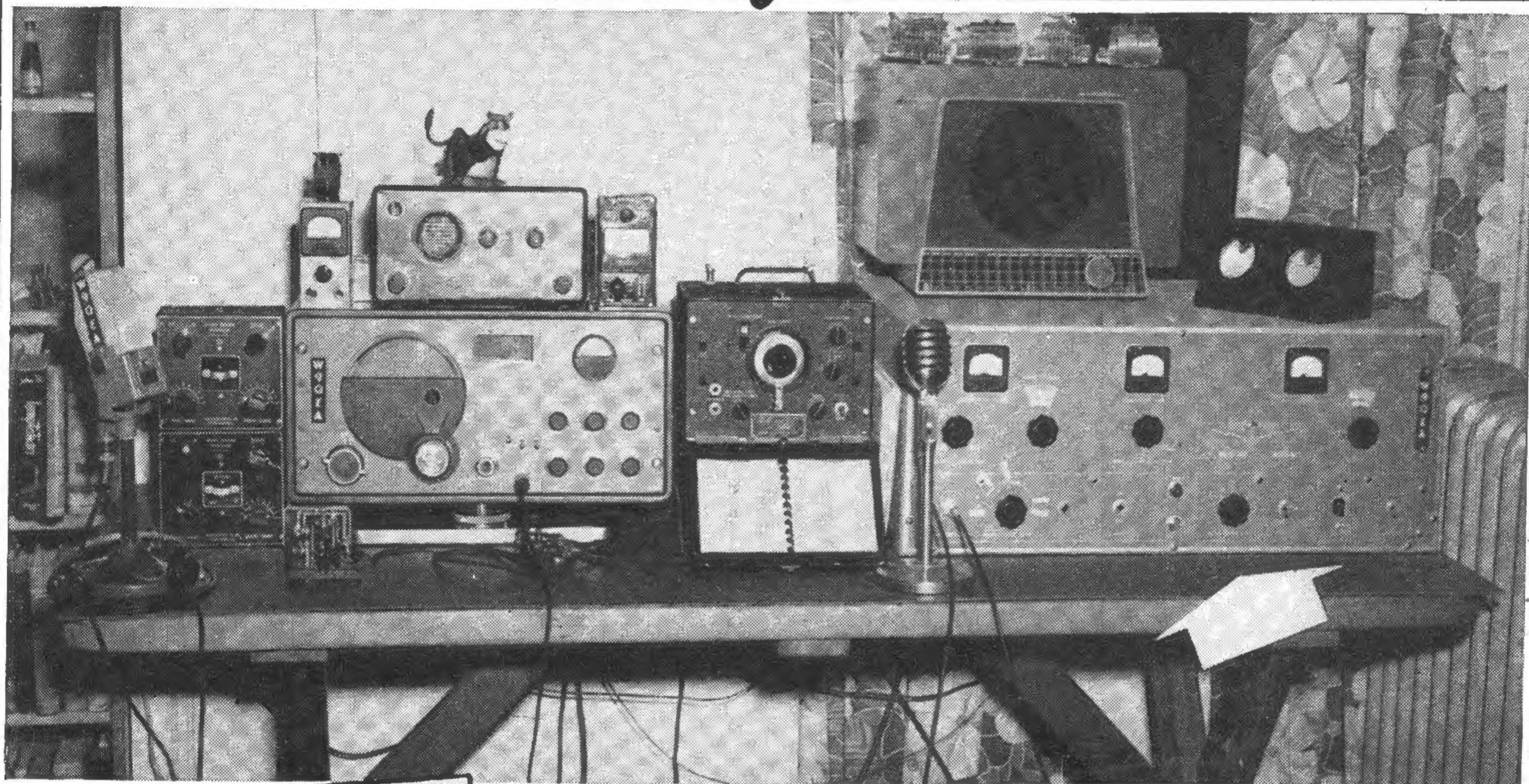
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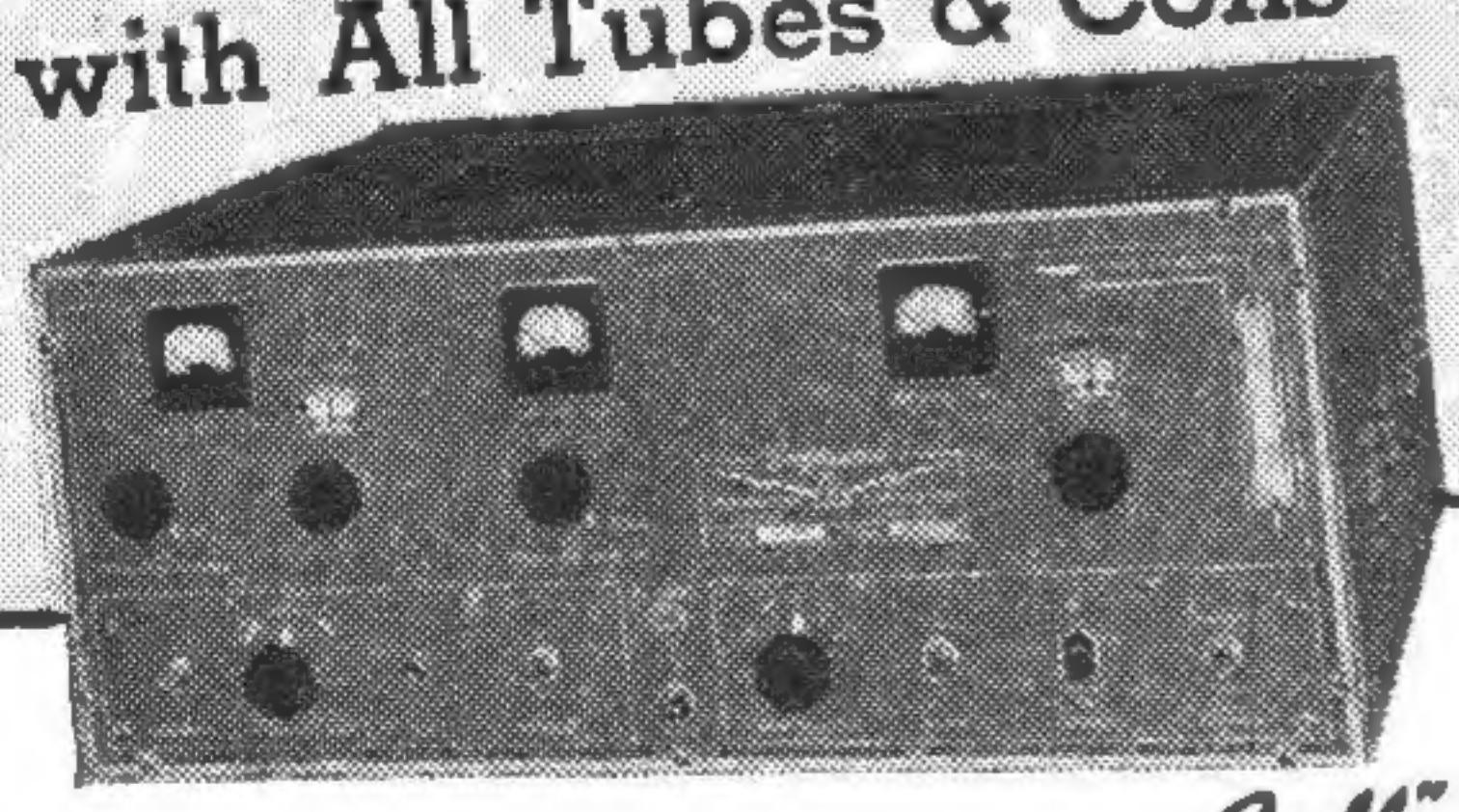
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ANYWHERE... AT
ANY PRICE!!!**

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(200 on ICW) and
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with All Tubes & Coils



"The World at your Call"

Typical Supreme AF-100 installation—W9QEA rig of Karl Kopetzky, noted radio editor, writer and technician, Chicago. This compact, neat, desk-type transmitter fits anywhere yet does a giant job.

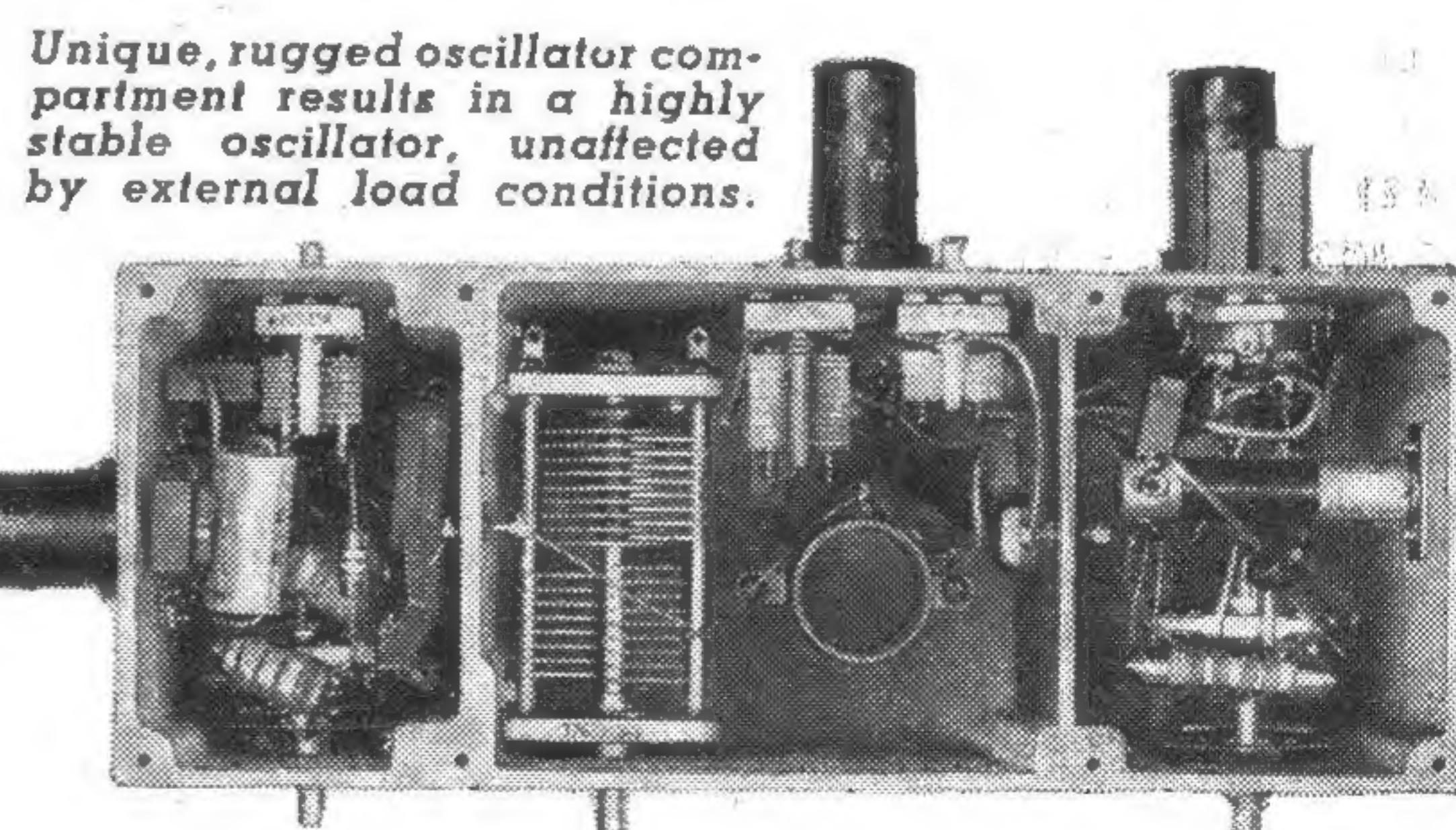


From all over the country—and from abroad as well—come enthusiastic reports on the performance of the Supreme AF-100 transmitter. Just listen to those Supremes now on the air! Listen to them on 10, 11, 15, 20, 40 and 80 meters! They pack a terrific wallop—one matched only by other transmitters of much higher power ratings. And because of the extreme versatility of the AF-100—ready for any frequency allocation changes that may come along—these Supremes will be on the air for many years to come. There's no better "buy" today. Make us prove it!

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RADIO AMATEUR CALL BOOK

If you hold two separate radio amateur station licenses, be sure and advise us giving the call letters, address and the date that each license was issued. This information may prevent one of your calls from being deleted from the Callbook through error.

You may receive a questionnaire from us asking for all of your ex-calls and your full name, including your middle name. This information is desired for identification purposes only so that your call will not be confused with another radio amateur having the same last name.

The Editor.

VOLUME 25

NUMBER 3

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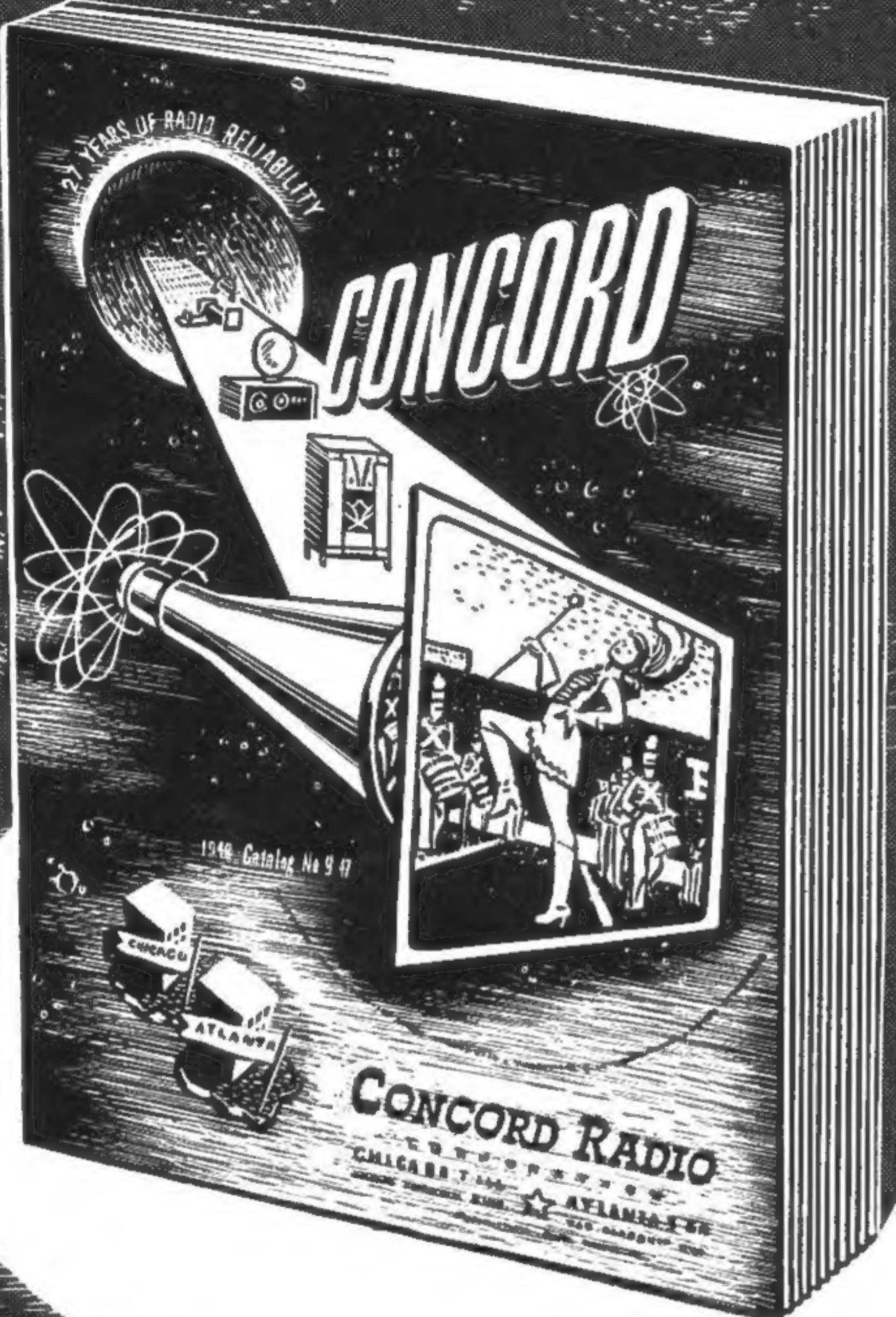
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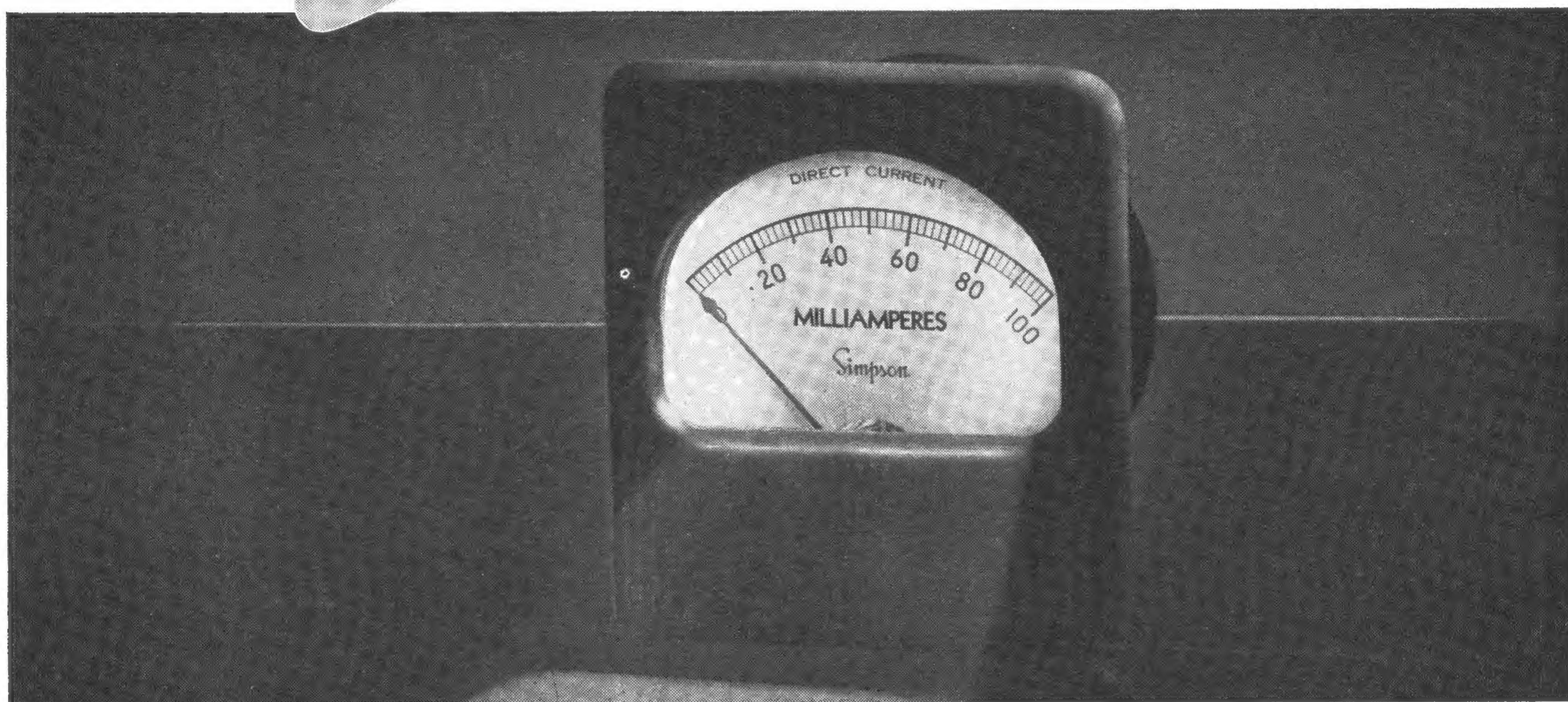
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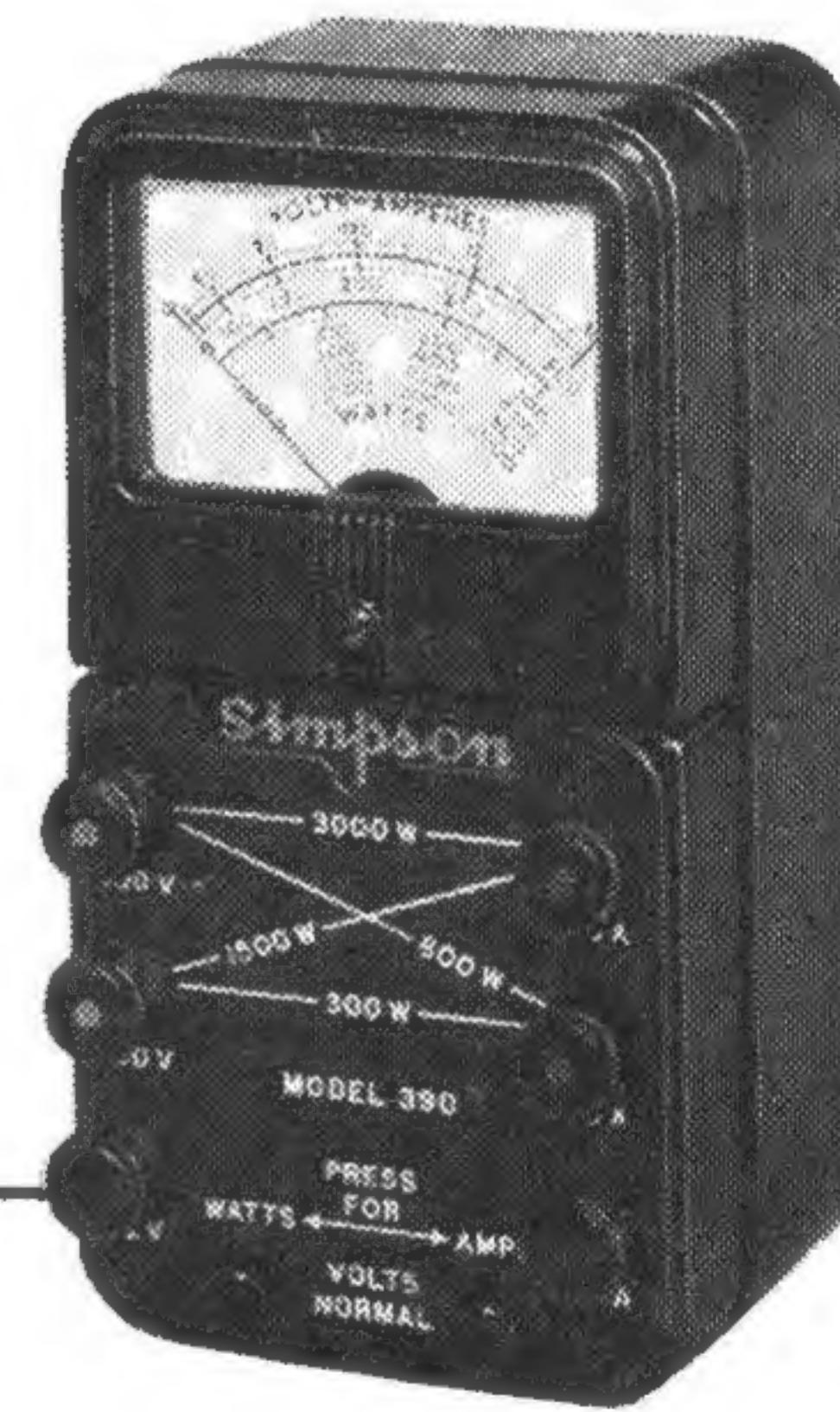
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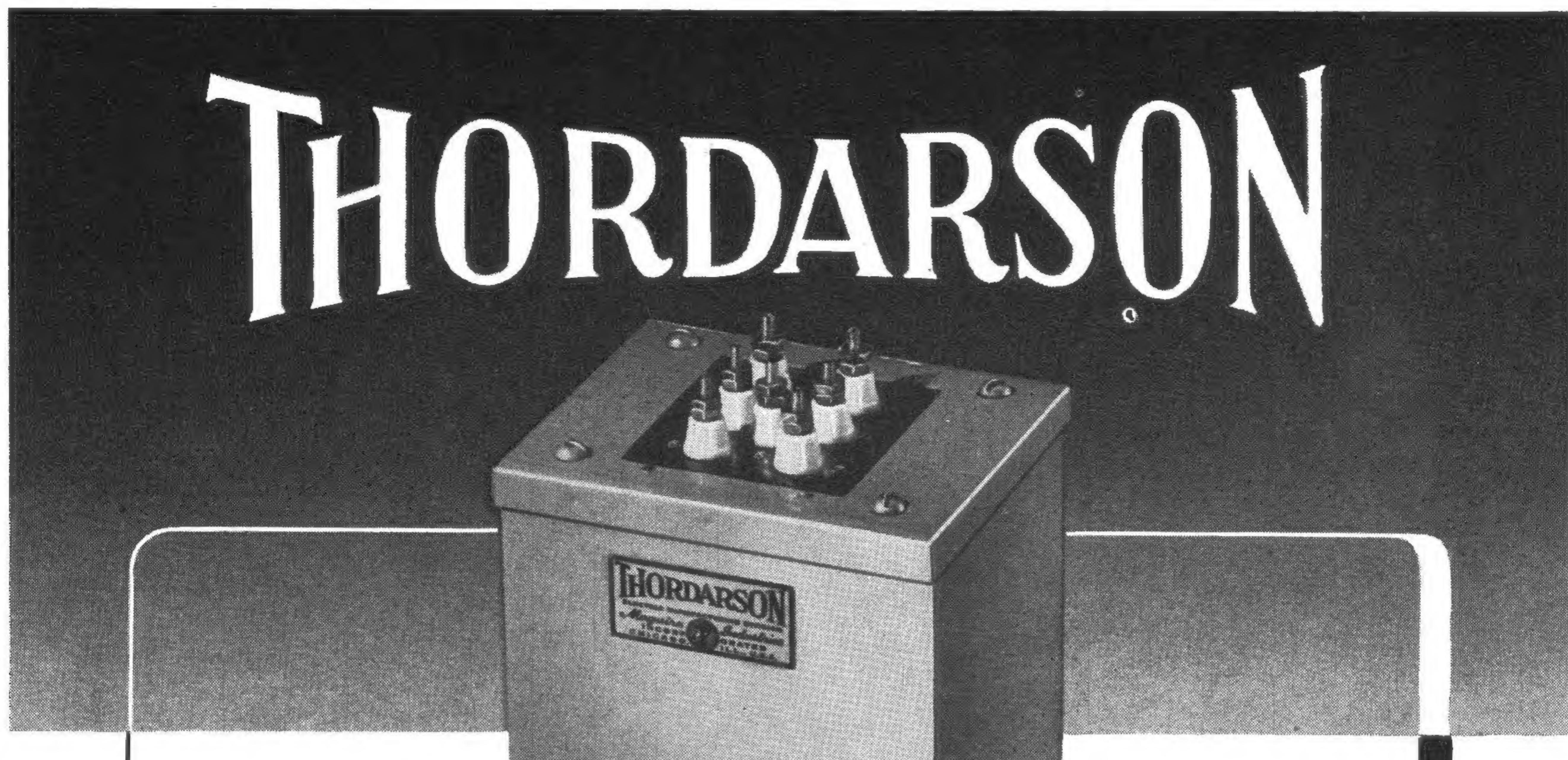
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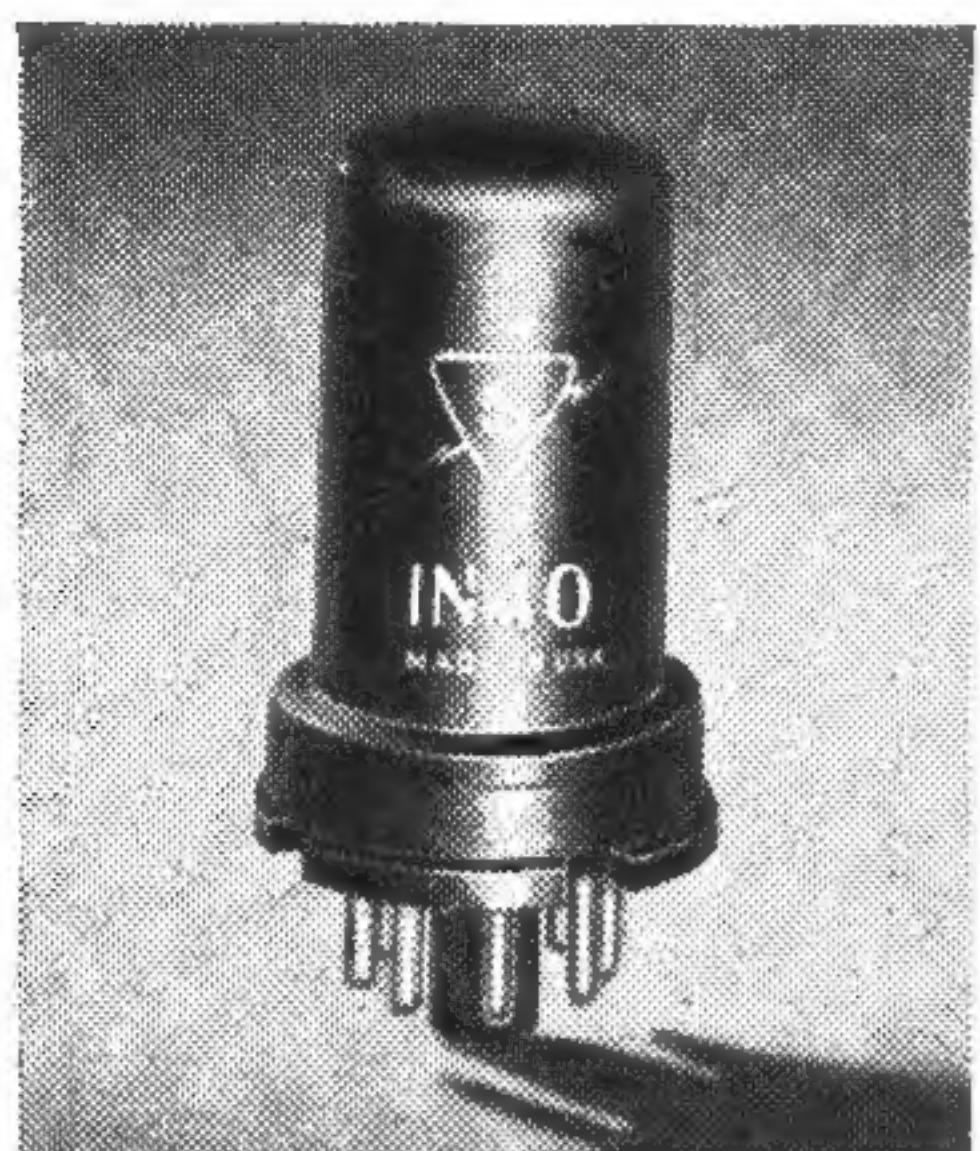


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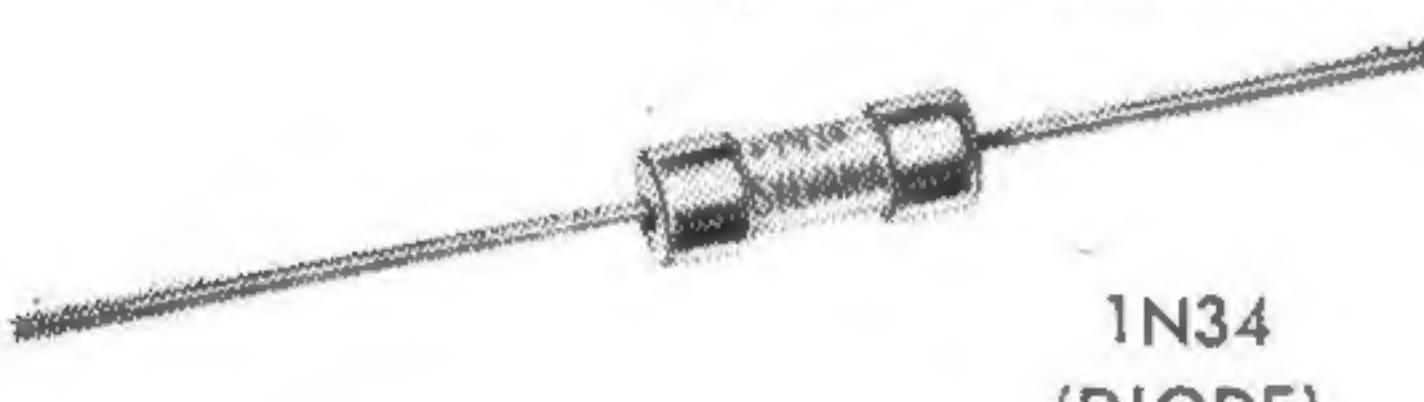
CRYSTAL DIODE VARISTOR (1N40)



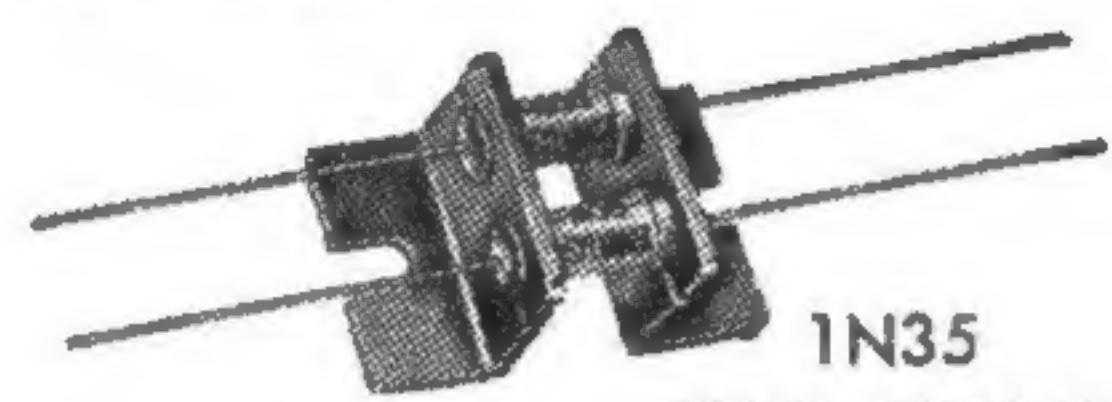
The 1N40 consists of four specially matched germanium crystal diodes (similar to the familiar Sylvania 1N34) carefully selected and balanced, and factory-assembled into a single compact unit.

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GERMANIUM CRYSTALS



1N34
(DIODE)

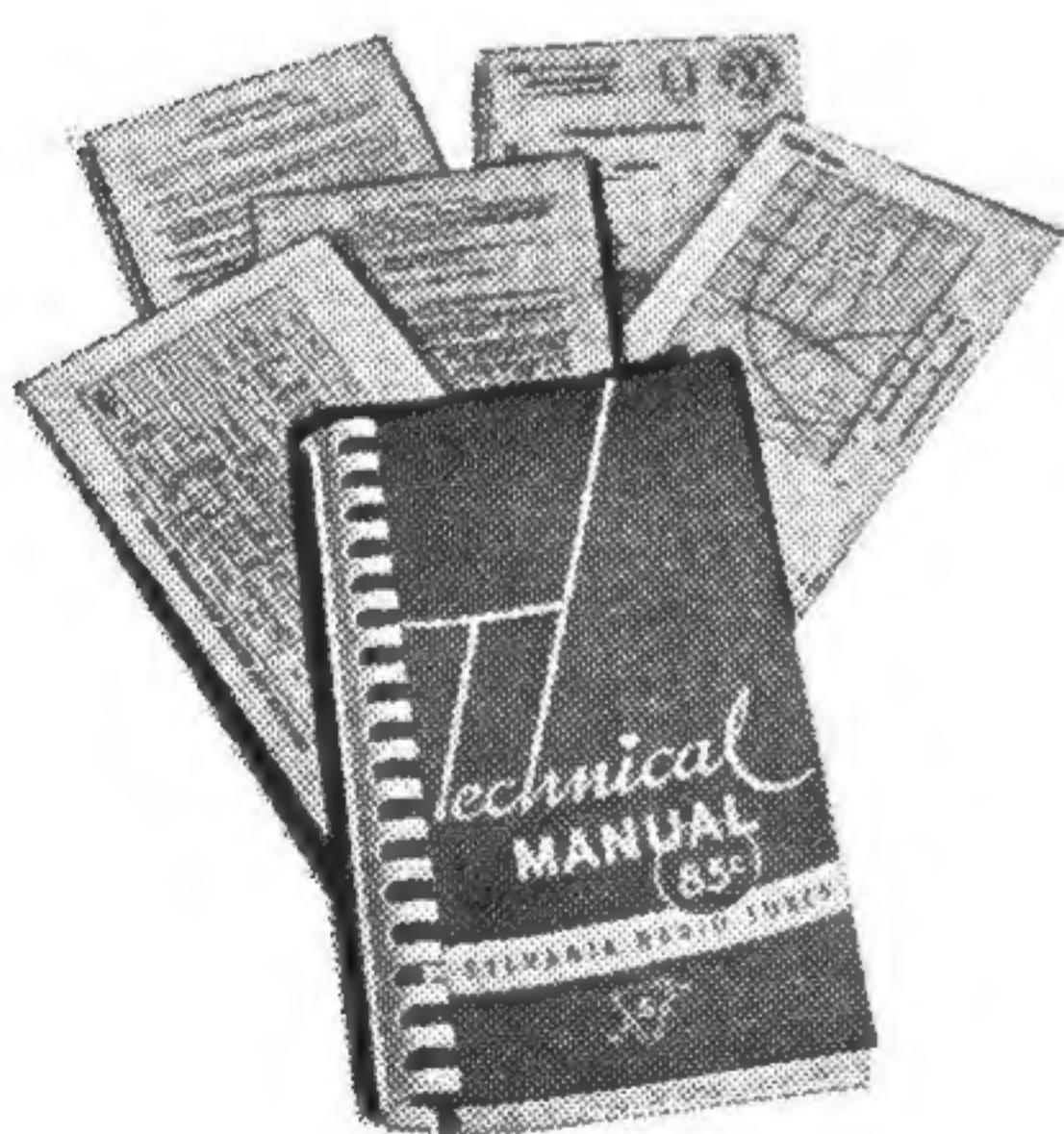


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3. Pigtail construction—can be soldered into place.
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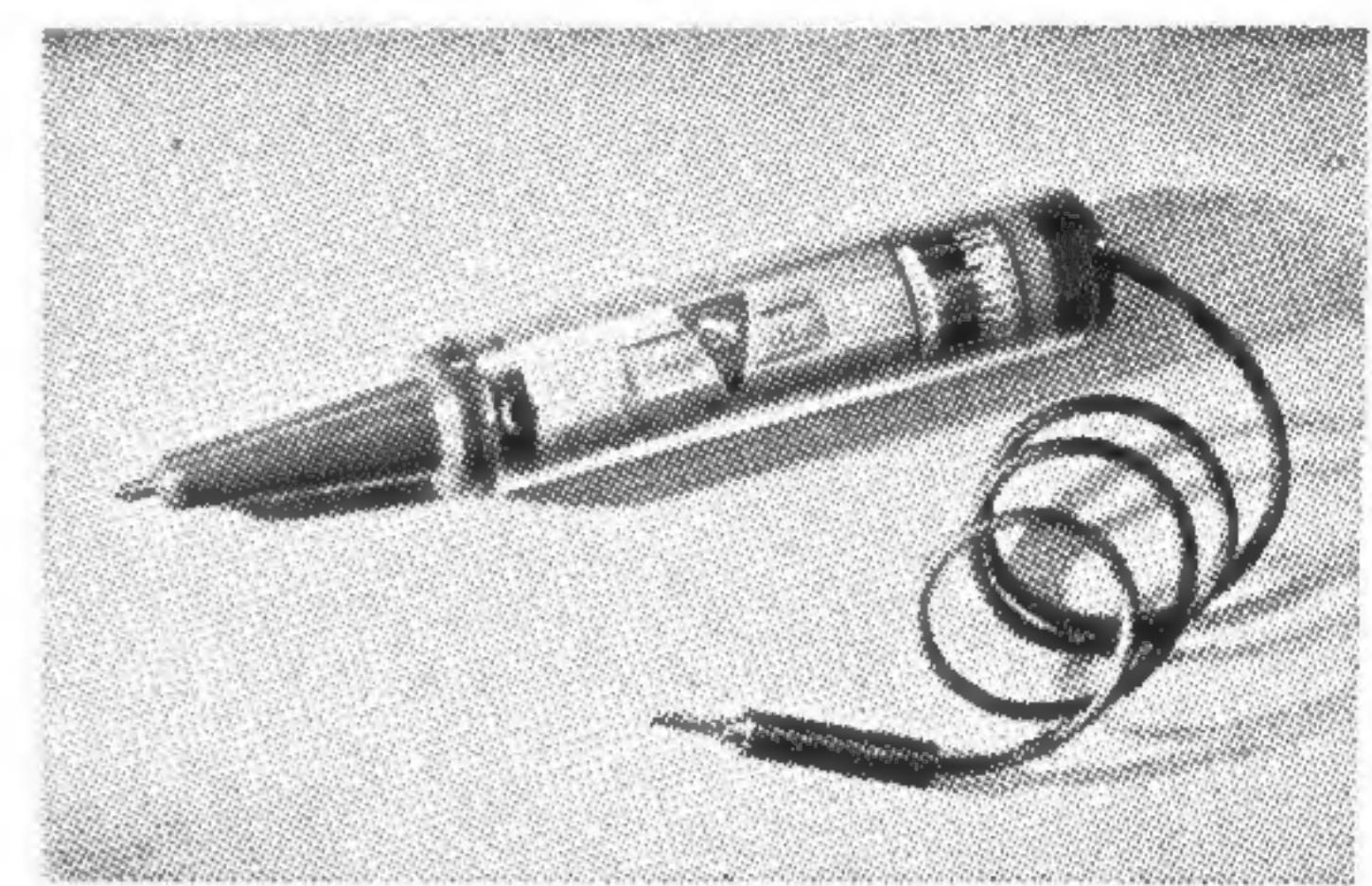
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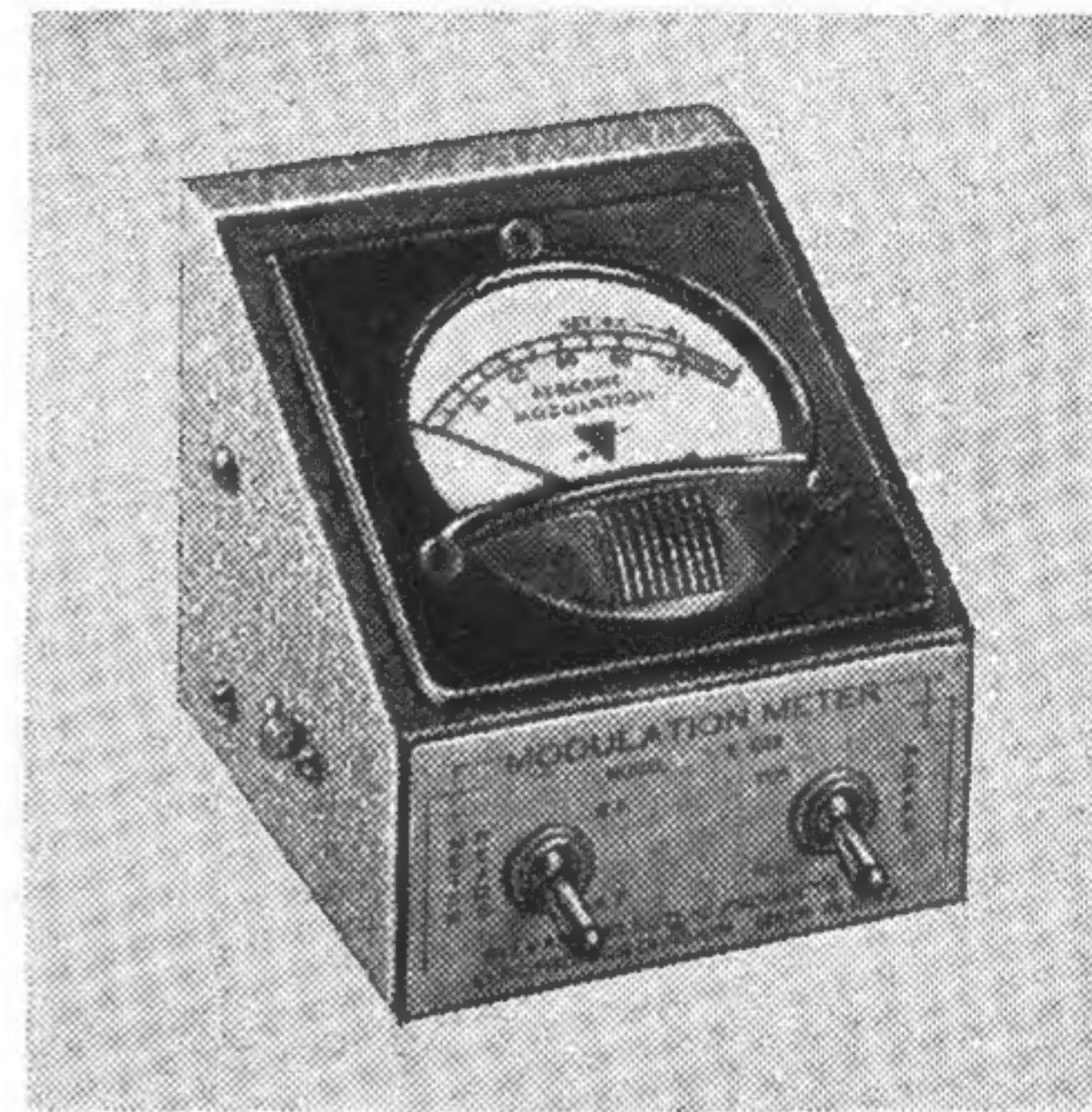
With the Sylvania Pocket Test Prod Ohmmeter in your tool kit, you can locate shorts or open circuits in a jiffy!

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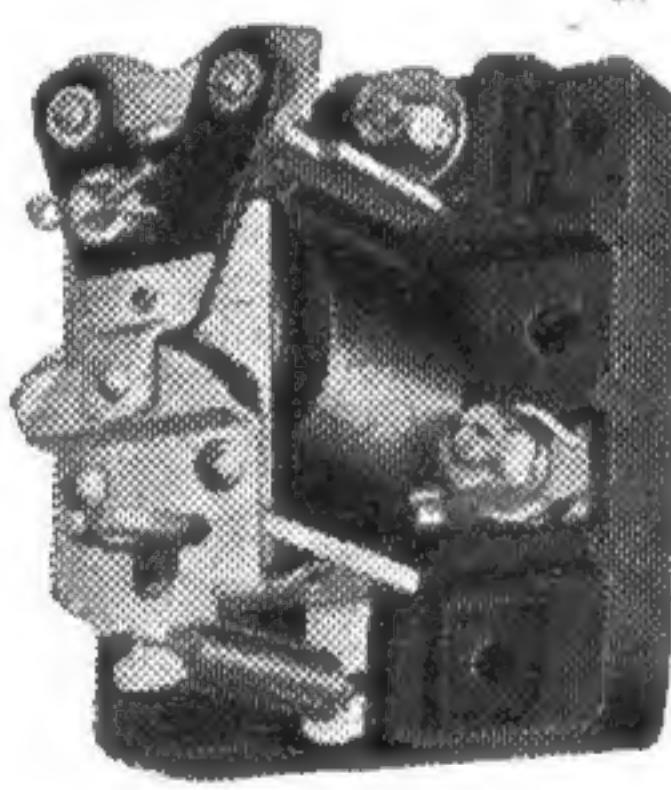
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RESISTORS

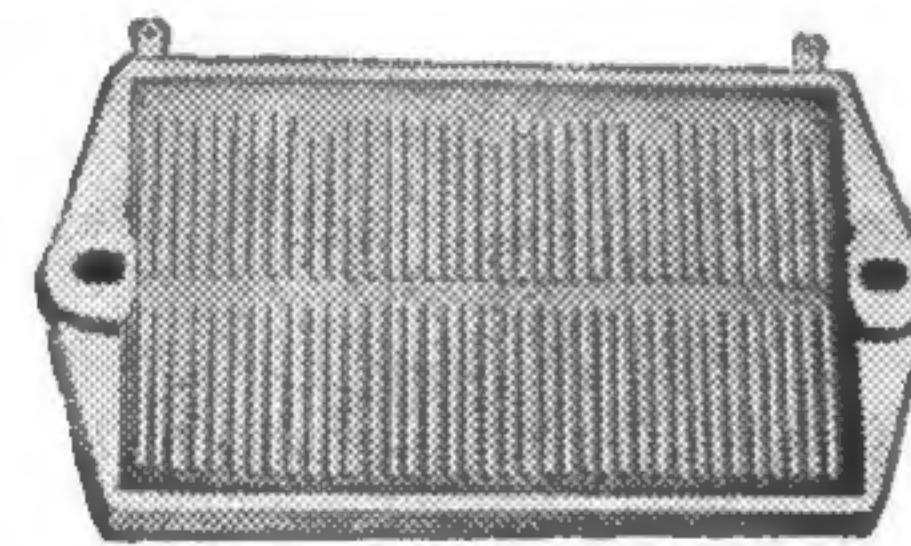
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Catalogs D-2
and D-111



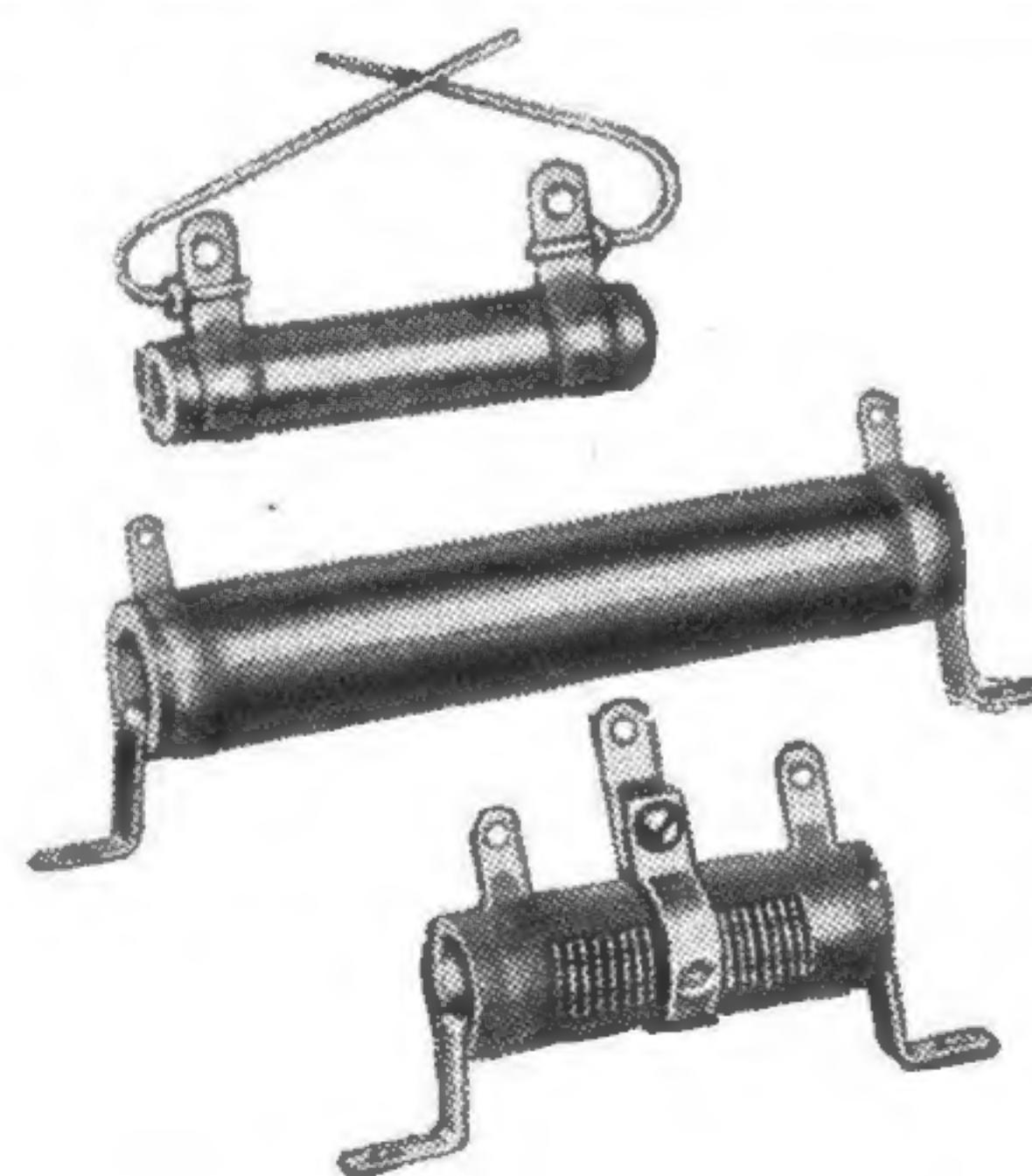
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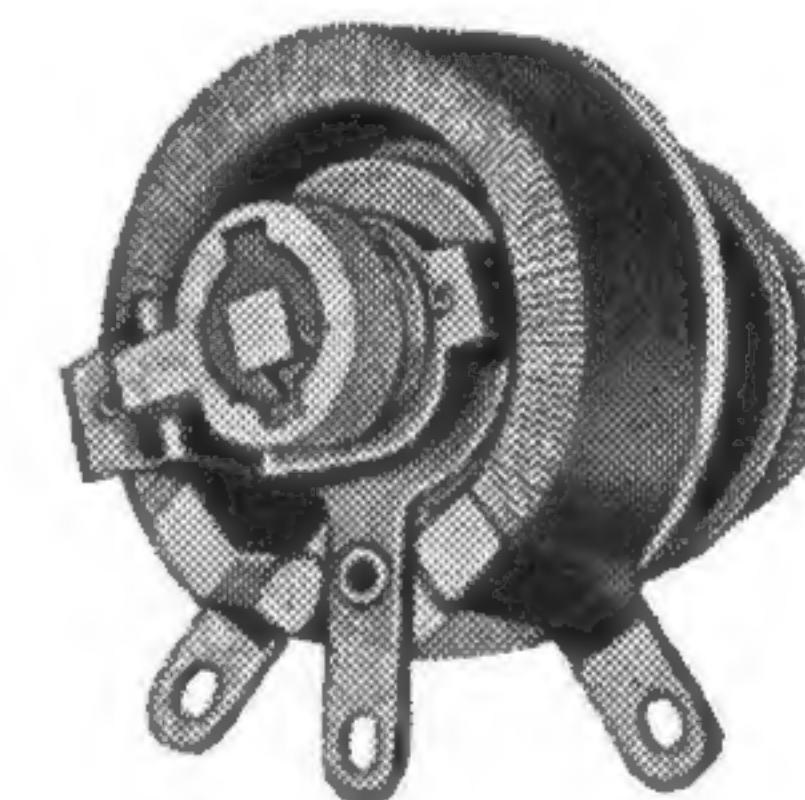
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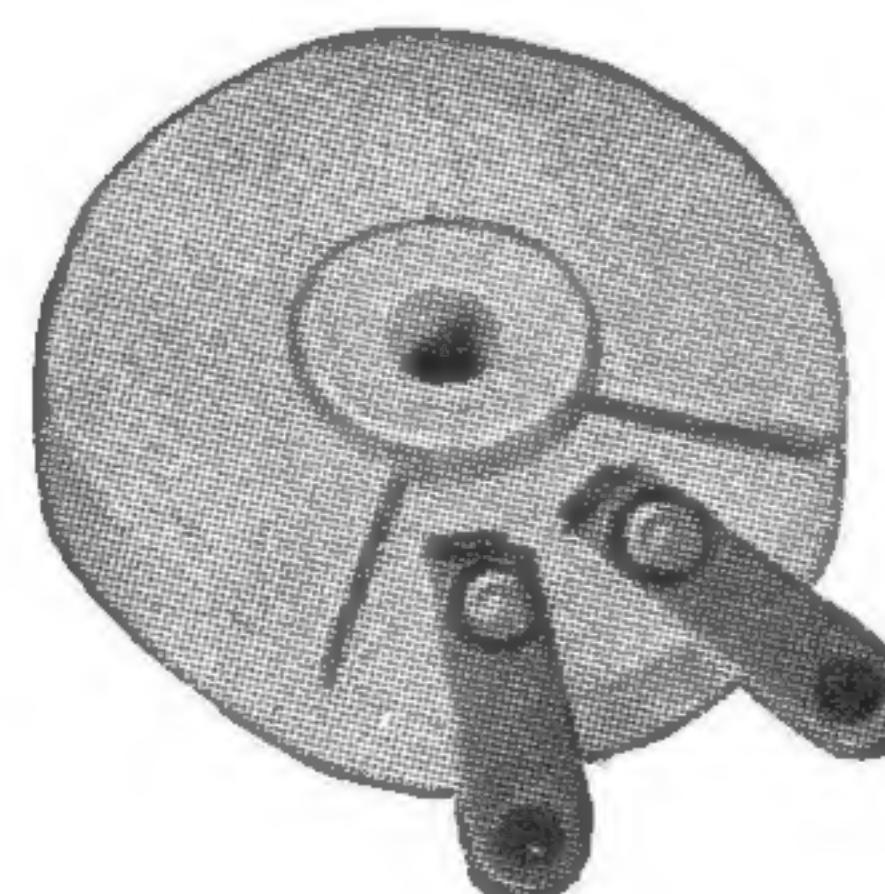
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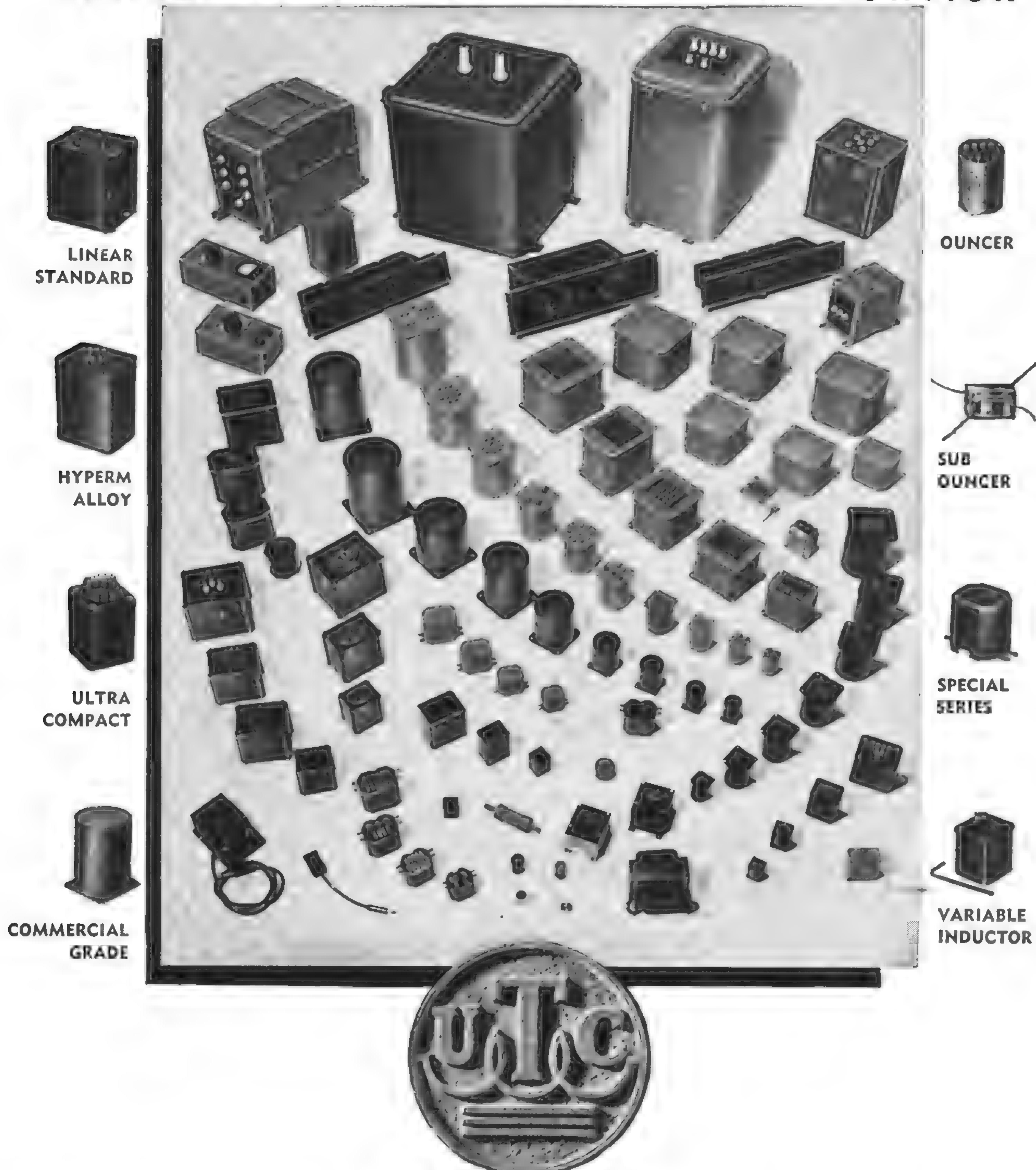
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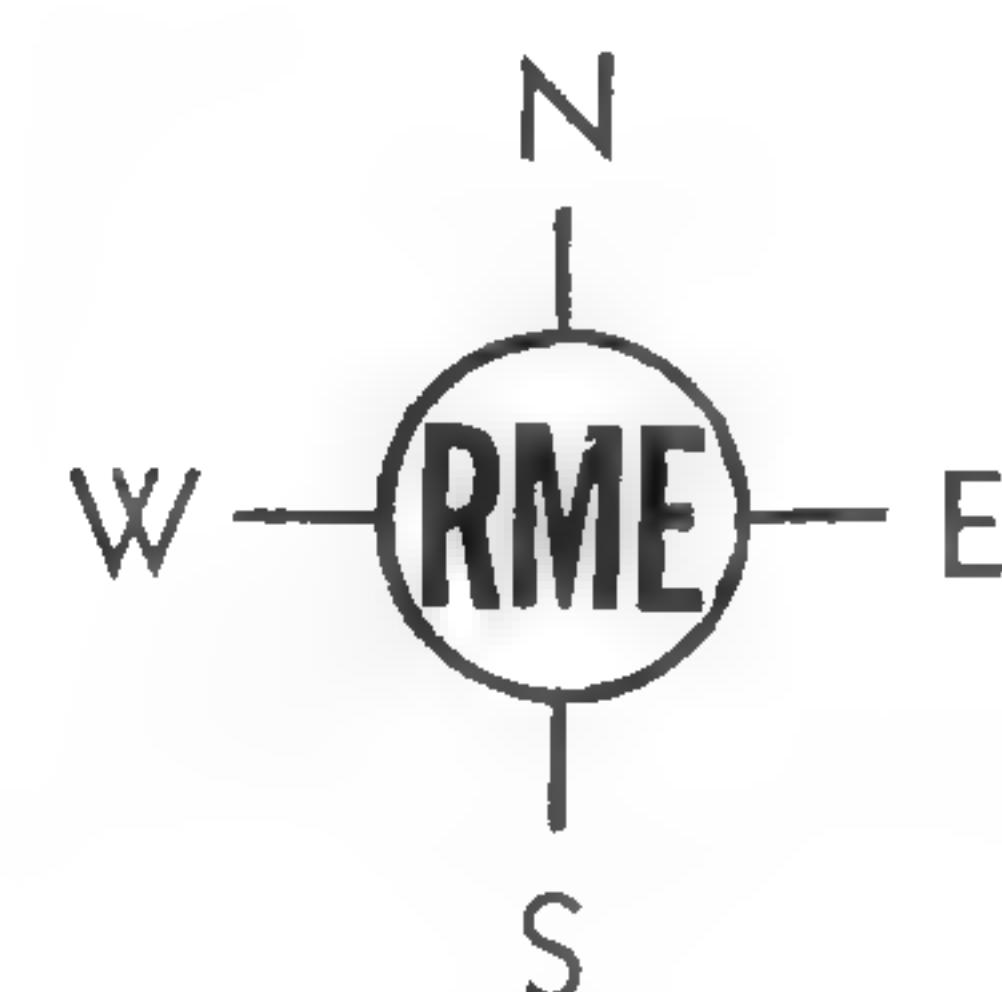
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FOR AMATEURS

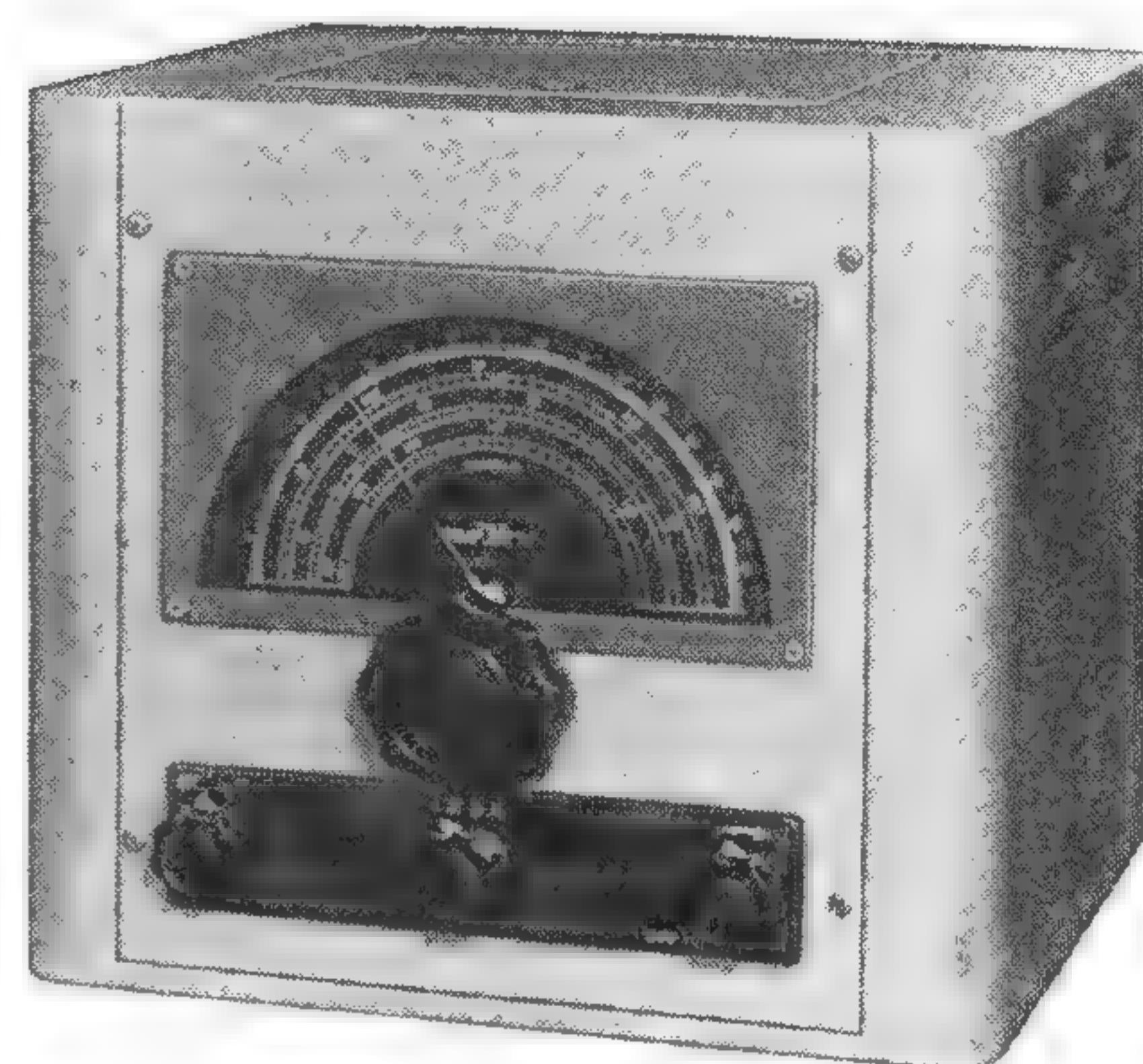
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The New DB22A Preselector

Coverage .54 to 44 Mc. — Average Gain 30 DB

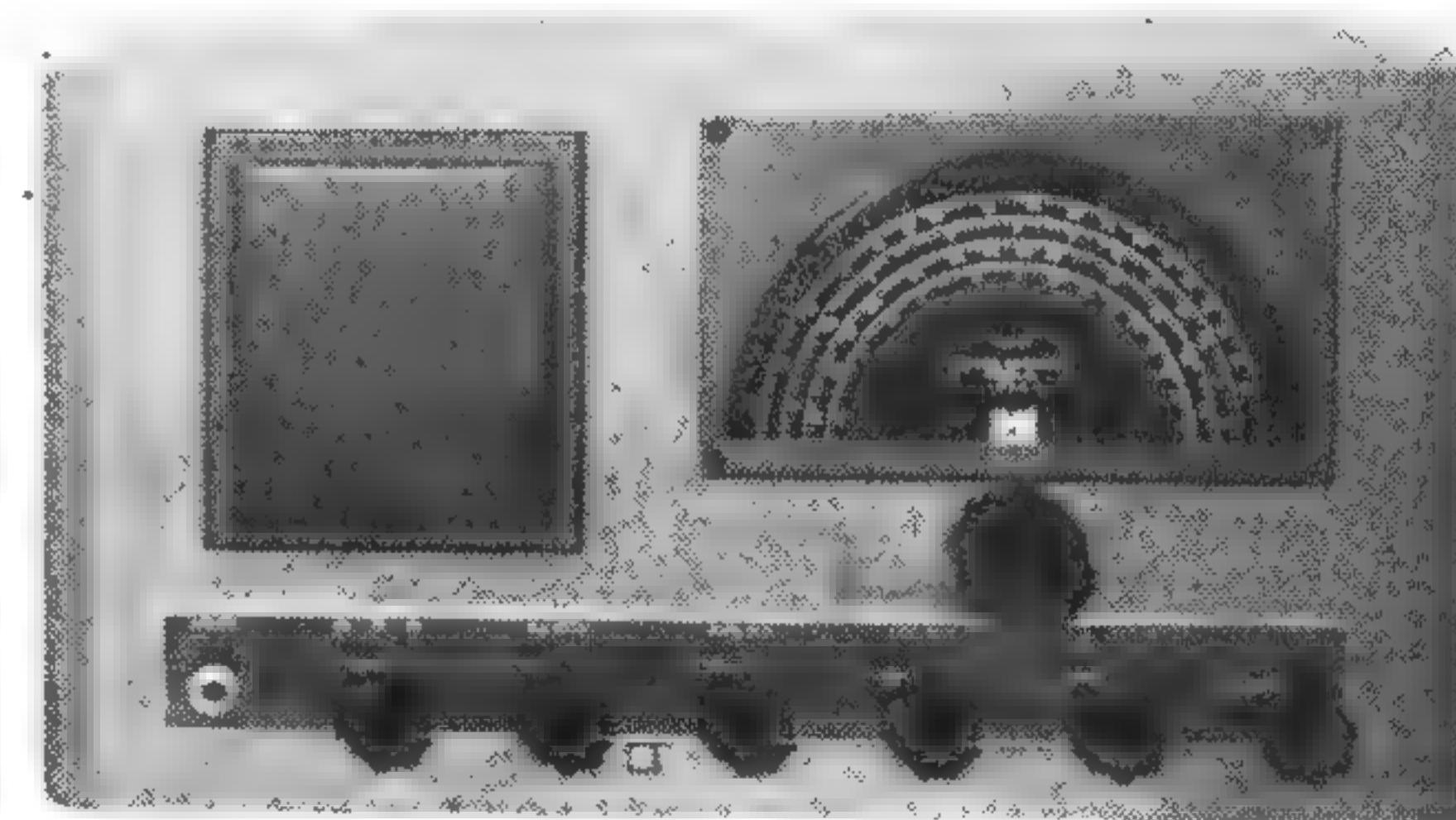
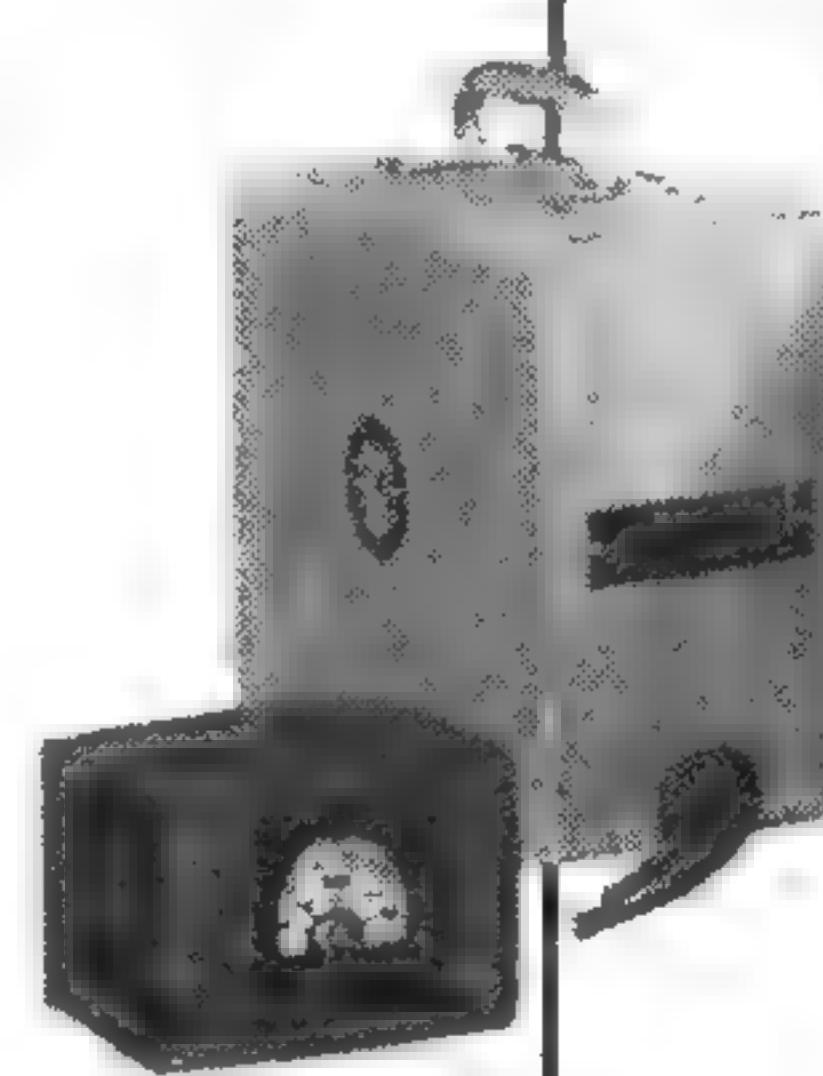
Here's the new DB22A completely redesigned for greater efficiency and higher signal to noise ratio. It uses new 6BA6 miniatures. Image ratio is better than 50 DB with a communications receiver having a single stage of RF. It's calibrated, has smooth planetary tuning, self contained power supply, antenna bypass switch, gain control and many other features. Connect the DB22A to your receiver just like an antenna — no wiring — no plug in coils. It's entirely self-contained — entirely in a class by itself!



The RME 84

For Home, Portable or Mobile Operation

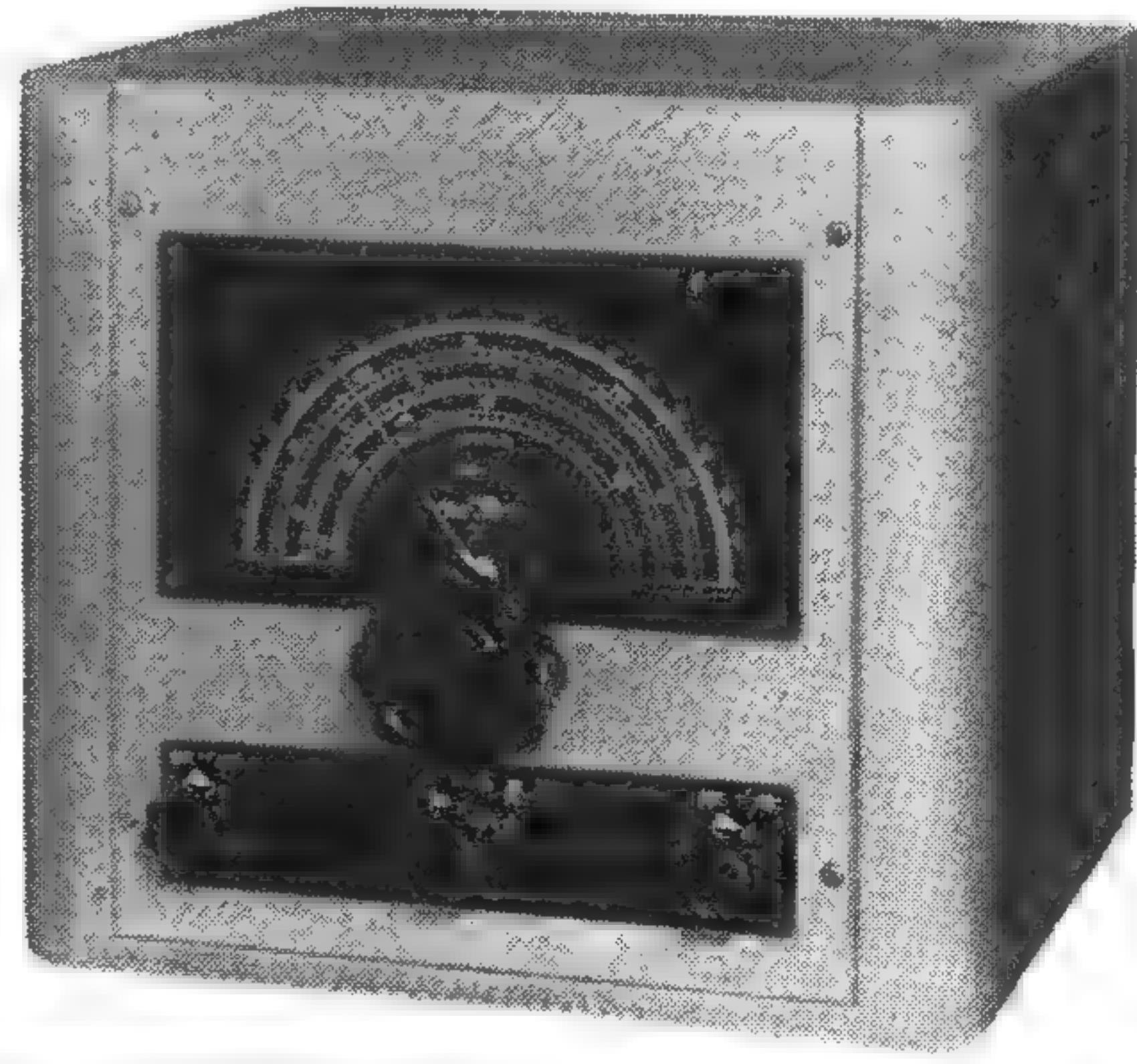
A quality receiver in the lower price field that will give you the most for your money. Operates from 115 volts AC, batteries or from the VP-2, a six volt power pack, optional with the RME 84. Also optional, and illustrated, is the CM-1 — Carrier Level "S" Meter.



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For Two, Six, Ten and Eleven Meters

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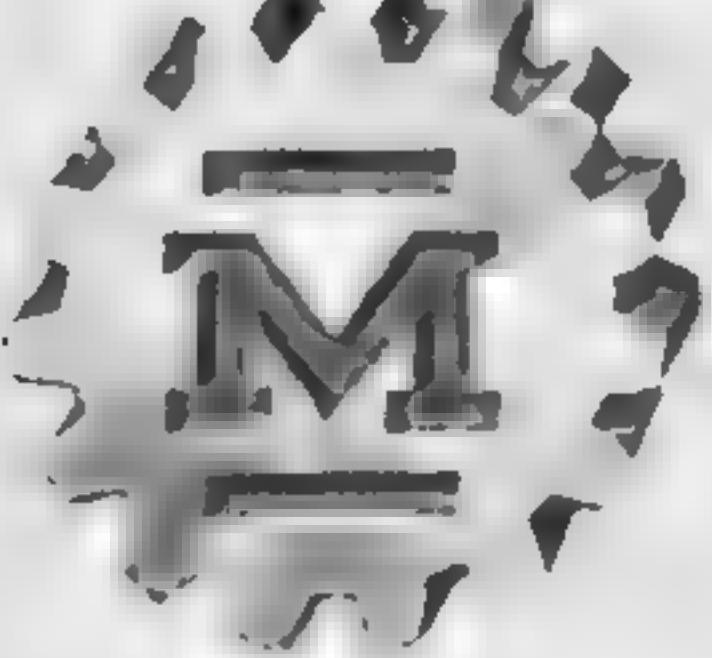
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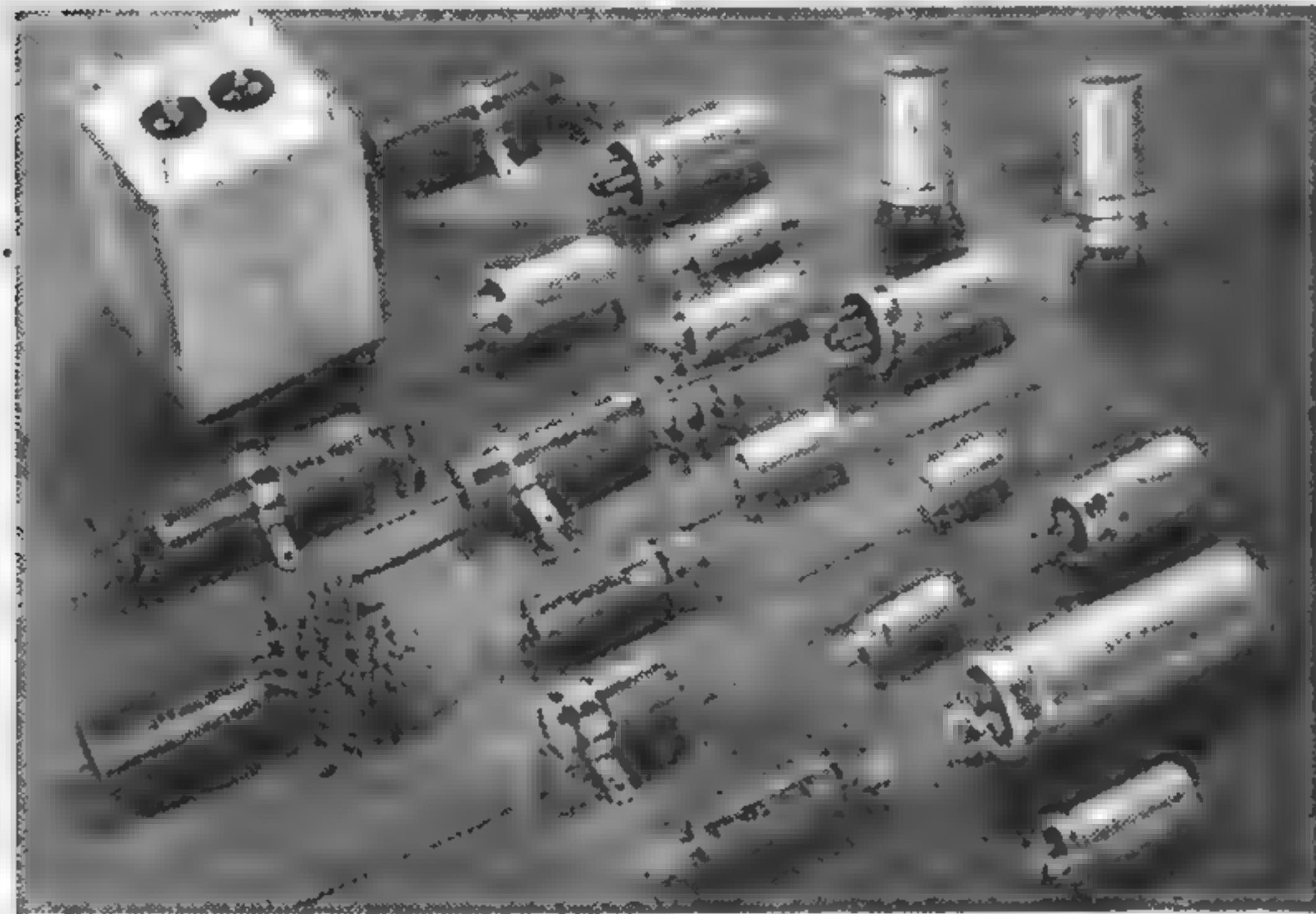
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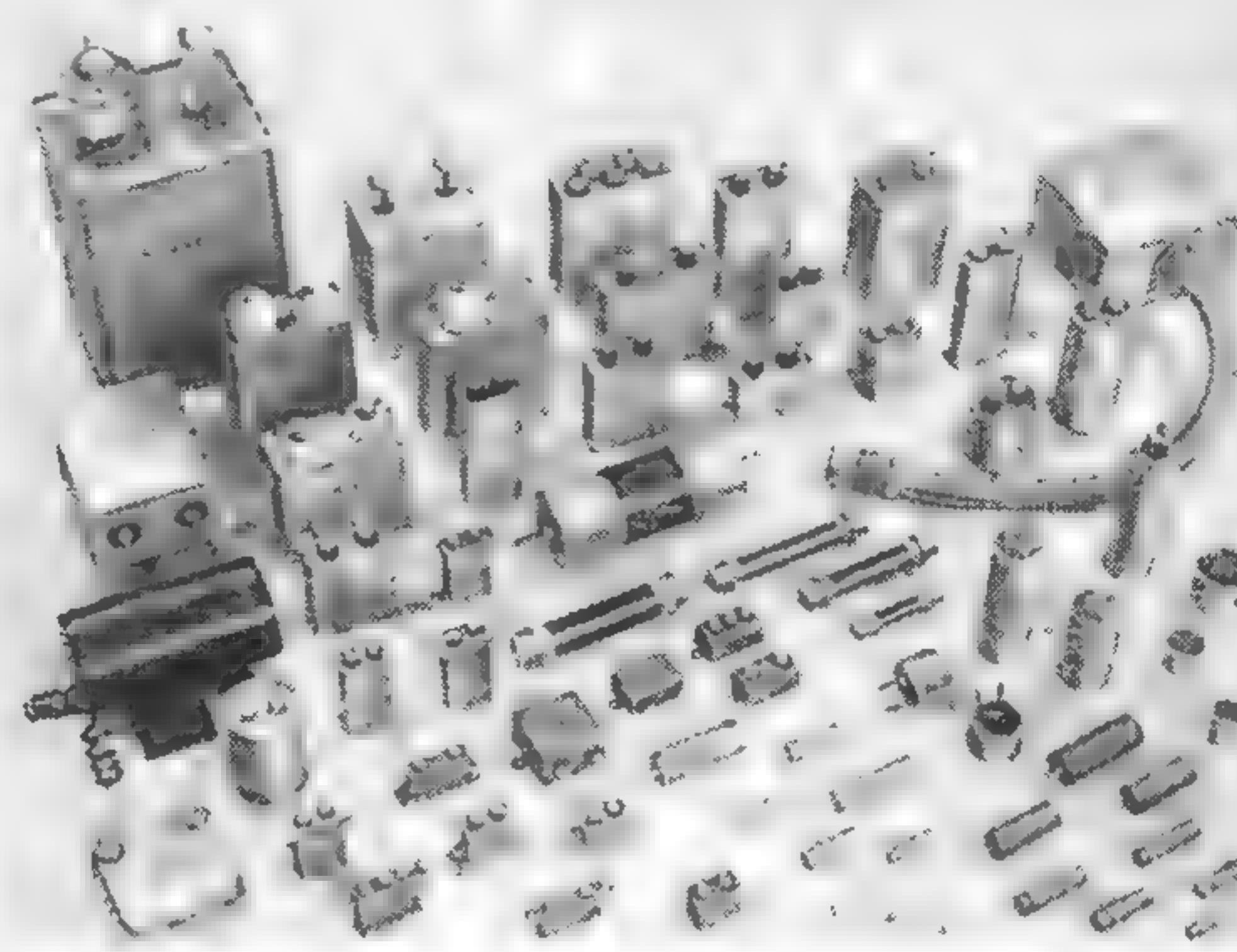
Shown here are a few of more than 9675 capacitor and *Koolohm resistor types that Sprague produces every year. Many of these are for critical industrial applications, others for national defense and ultra-exacting scientific needs.



DRY ELECTROLYTICS

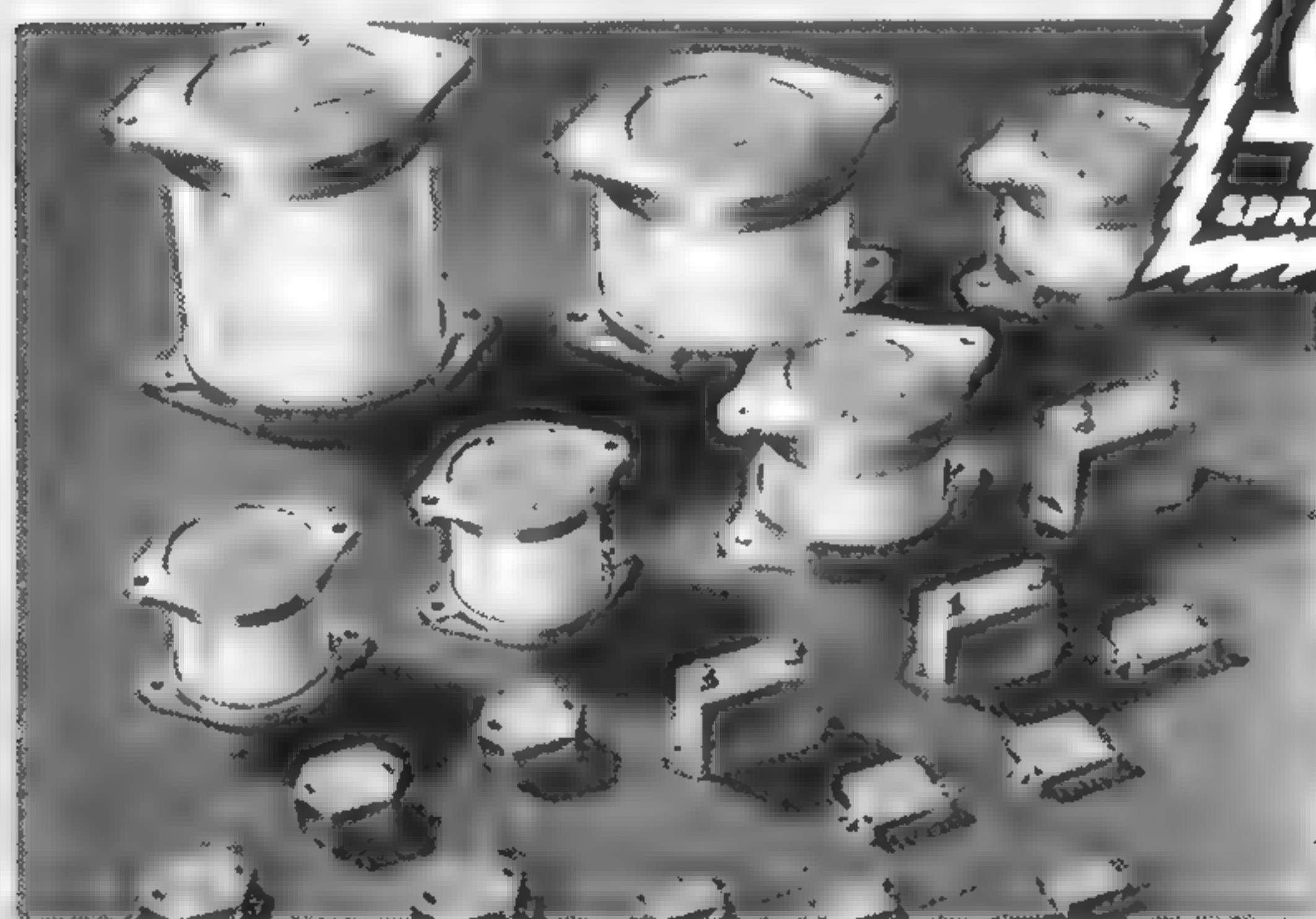
Sprague offers the most diversified dry electrolytic capacitor line ever presented for standard distributor stock. Tiny "Atom" midgets; self-mounting multi-section units; high-capacity, low-voltage tubulars; rectangular and cylindrical shapes; lug, bracket and self-mounting types; terminals and lead connections and many others!

From this vast array come the capacitors that are carefully selected for amateur radio uses—types that mean more for your money because they're better engineered, built more dependably. Catalog on request.



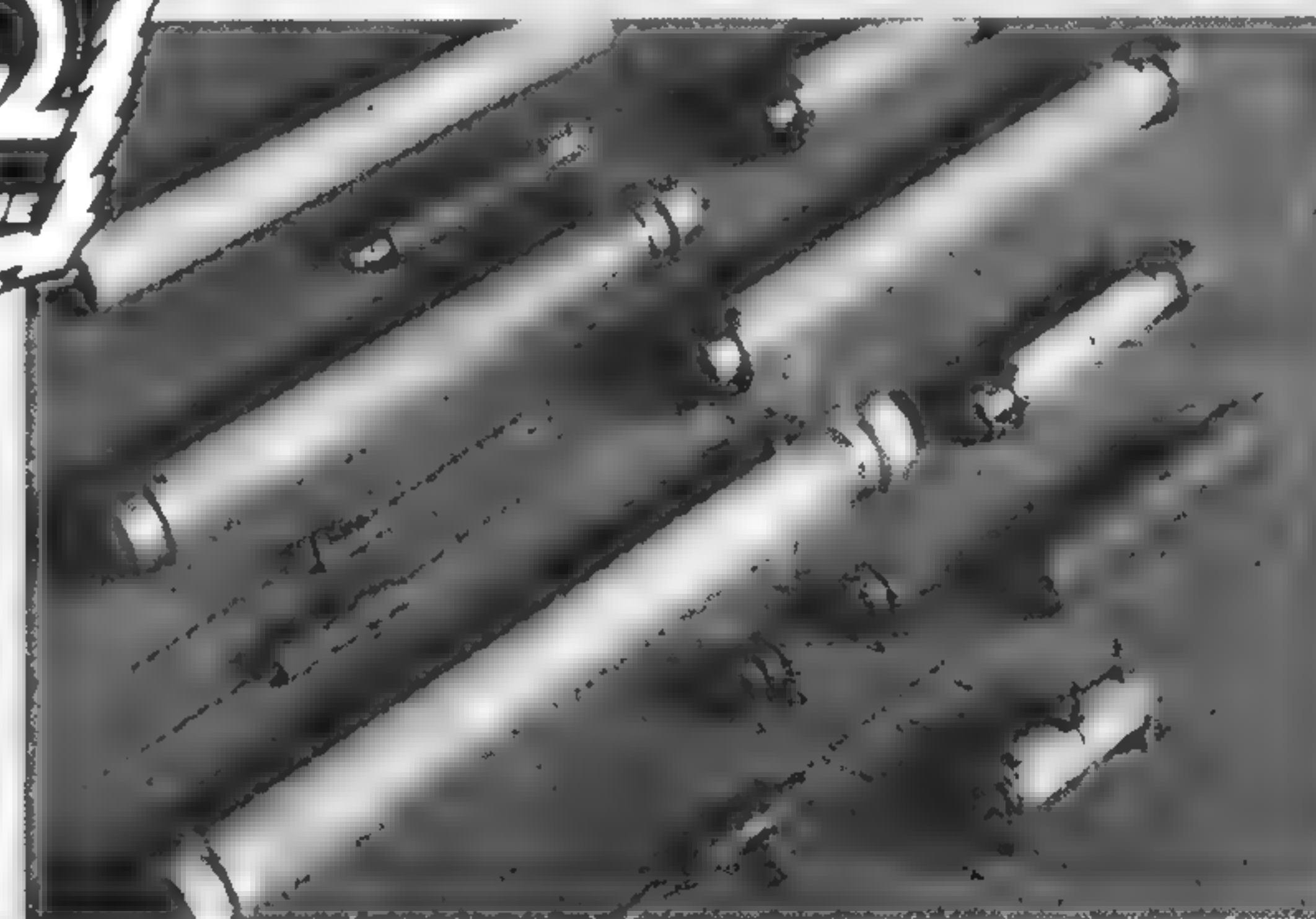
PAPER DIELECTRICS

Standard Sprague paper dielectric capacitors for amateur use include 15 types and over 250 items. Chief among them are three small, popularly priced transmitting types that are both filled and impregnated with "KVO, the exclusive Sprague dielectric. And don't forget the TC Tubular By-pass types—"Not a failure in a million!"



MICA DIELECTRICS

Sprague distributors carry complete stocks of popular mica capacitors including all needed capacities and voltage ratings—in sizes from "postage stamp" silvered micas to high-voltage ceramic-jacketed units. All provide maximum quality for R-F applications where low power factor and high insulation resistance at high frequencies are essential.



*KOOLOHM RESISTORS

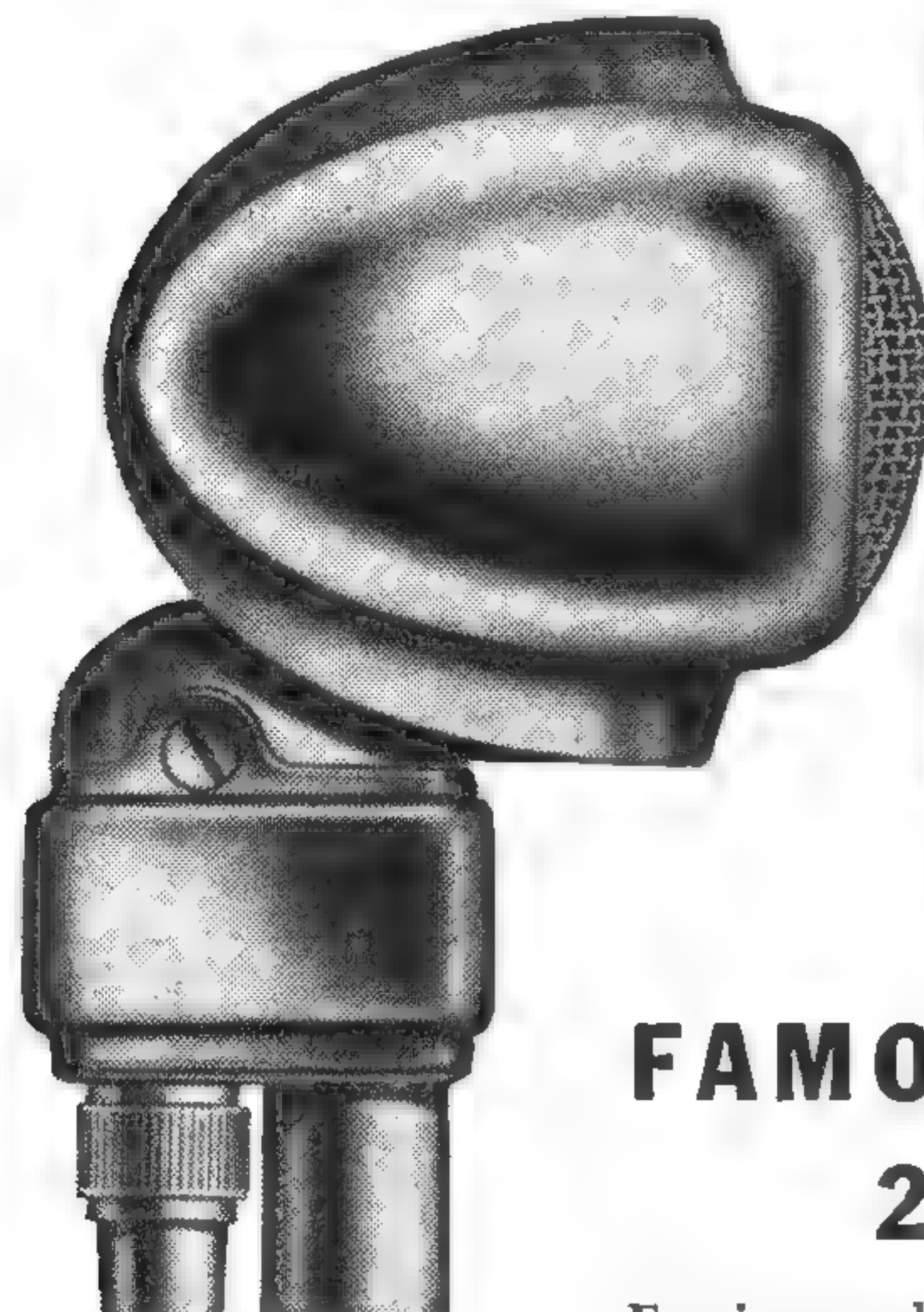
Sprague Koolohm Resistors are wound with wire insulated before winding with a flexible ceramic coating that is impervious to heat as high as 1000° C. Doubly protected by glazed ceramic shells and moisture resistant seals. Insulated for 10,000 volts resistance breakdown to ground. Larger, sturdier wire sizes in smaller resistors. Use Koolohms at full wattage ratings—anywhere!

*Trademarks Reg. U. S. Pat. Off.

SPRAGUE

PIONEERS OF ELECTRONIC AND ELECTRICAL PROGRESS
SPRAGUE PRODUCTS COMPANY, NORTH ADAMS, MASS.

Jobbing distributing organization for products of Sprague Electric Co.



FAMOUS TURNER 22X-22D

Engineered for smooth response to both voice and music pick-ups. Choice of crystal or dynamic circuits. 22X Crystal has built-in wind-gag permitting outdoor operation. Crystal impregnated against moisture and protected against changes in barometric pressure. Level: 52db below 1 volt/dyne/sq.cm. Response: Flat within ± 5 db from 50 to 9000 c.p.s. 22D Dynamic has high level dynamic cartridge. Dependable indoors or out. Response: Flat within ± 5 db from 50 to 9000 c.p.s. Level: 54db below 1 volt/dyne/sq.cm. In 50, 200, 500 ohms or high impedance. Both models equipped with 90° tilting head and 7 ft. removable cable set.

NEW, IMPROVED VT-73 DESK MICROPHONE



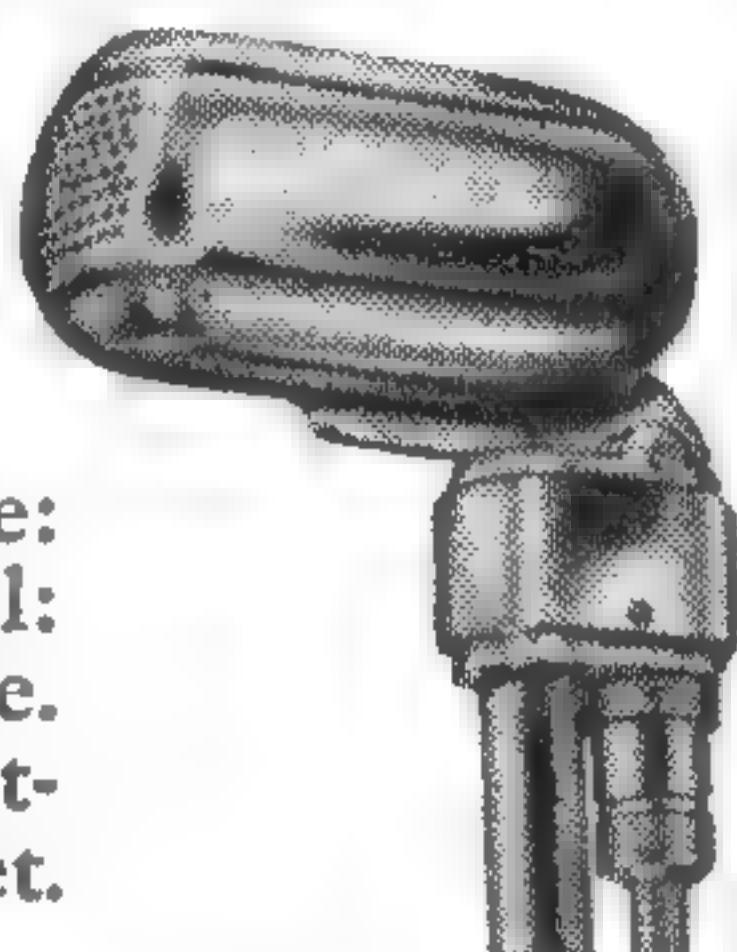
Here's a dependable unit for clear, crisp results. Stepped up in both performance and styling. The new Turner VT-73 increases intelligibility at voice frequencies without over-modulation. Engineered especially for Quality speech recording, public address, and amateur use with *rising curvature of response* between 500-4000 cycles. High quality moisture proofed crystal. Level: 52db below 1 volt/dyne/sq.cm. Response: 50-7000 c.p.s. Finished in black crinkle and chrome. Complete with ball swivel head, stand and 7 ft. cable.

A WORLD WIDE FAVORITE WITH PROMINENT AMATEURS FOR QUALITY REPORTS

For microphones you can depend upon for clear, sharp communications Turn to Turner—the *password to sound performance*. Precision engineered of finest materials Turner Microphones are built to stand up and deliver under the most difficult service conditions. To thousands of radio amateurs there's no mike like a Turner—the leader in style, in dependability, in performance.

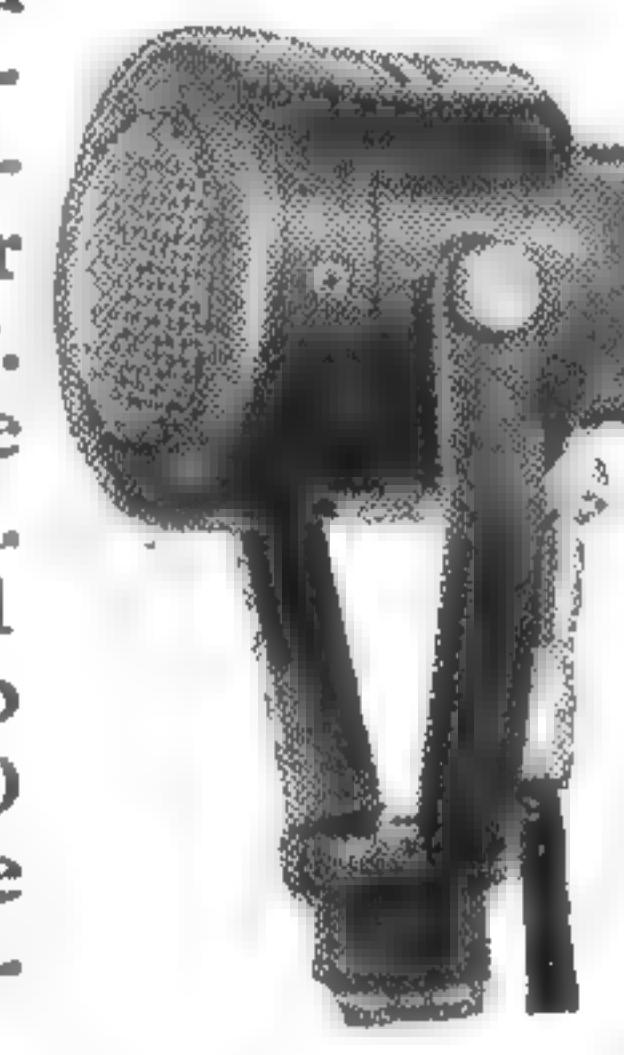
MODEL 211 BROADCAST QUALITY DYNAMIC

Engineered for highest quality recording, P.A., sound system and broadcast work. Utilizes new type magnet structure and acoustic network. Unique diaphragm structure design provides extremely low harmonic and phase distortion without sacrifice of high output level. Response: Flat within ± 5 db from 30-10,000 c.p.s. Level: 54db below 1 volt/dyne/sq.cm. at high impedance. Available in all standard impedances with 90° tilting head and 20 ft. heavy duty removable cable set.



FOR PROFESSIONAL RESULTS WITH YOUR RIG

TURNER 99 DYNAMIC The most rugged microphone in the entire Turner line. Professional in both appearance and performance. Engineered and built for the discriminating user who wants utmost in efficiency and dependability. Withstands severe climate and temperature changes. Semi- or non-directional operation. Baked gun-metal finish. Level: 52db below 1 volt/dyne/sq.cm. Response: Flat within ± 5 db from 40 to 9000 c.p.s. Choice of 50, 200, 500 ohms or high impedance with 20 ft. removable cable set. Also available as Model 999 with Balanced Line features for critical applications.



PLUS PERFORMANCE AT LOW COST... TURNER CHALLENGERS



Turner Challenger Microphones are designed and built to give highly satisfactory results in economical P.A., sound system, and amateur installations. Price considered, they have no equal for performance. They are built with the same care and precision as all Turner Microphones and are fully guaranteed.



MODEL BX CRYSTAL A semi-directional unit for recording, P. A., and amateur work. Attractive brown enamel finish. High quality crystal. Humidity protected. Shock mounted and equipped with barometric compensator. Level: 52db below 1 volt/dyne/sq. cm. Response: Flat within ± 5 db from 50-6000 c.p.s. With 7 ft. attached cable.

MODEL BD DYNAMIC Same style and finish as Model BX except equipped with high level dynamic cartridge. Rugged. Works indoors or out. Level: 52db below 1 volt/dyne/sq. cm. Response: Flat within ± 8 db from 50-6000 c. p. s. Choice of 50, 200, 500 ohms, or high impedance. Complete with 7 ft. attached cable.

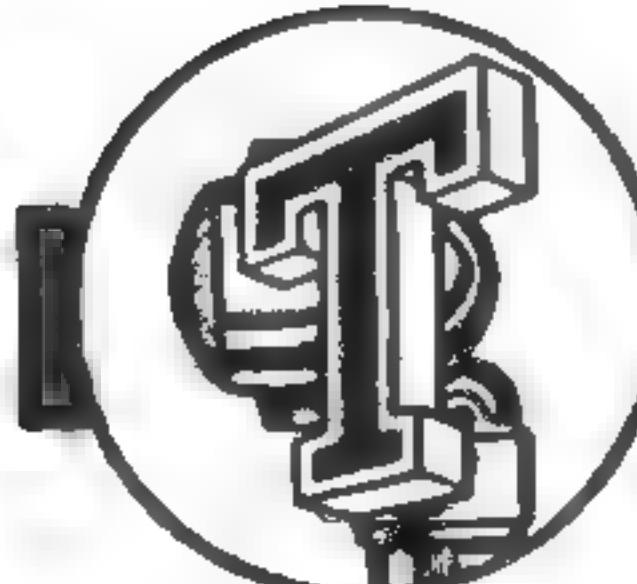
MODEL CX CRYSTAL Attractive general purpose semi-directional microphone finished in satin chrome. Has 7 ft. removable cable set. High quality humidity protected crystal. Shock mounted and equipped with barometric compensator. Level: 52db below 1 volt/dyne/sq. cm. Response: Flat within ± 5 db from 50-7000 c.p.s.

MODEL CD DYNAMIC Same appearance and satin chrome finish as Model CX. Smooth performing dynamic circuit withstands rougher handling. Level: 52db below 1 volt/dyne/sq. cm. Response: flat within ± 8 db from 50-7000 c.p.s. Complete with 7 ft. removable cable set in a choice of 50, 200, 500 ohms, or high impedance.

Complete Turner Microphone line includes crystal and dynamic units for every communication and sound need. Write for literature.

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Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

B & W



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Coil and Capacitor
Catalog.

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EXPORT: ROYAL NATIONAL COMPANY, 75 WEST STREET, NEW YORK, N. Y.

INTERNATIONAL RADIO AMATEUR PREFIXES

The following prefixes are listed in alphabetical order for convenience in locating the country when DX calls are heard. Figures in parentheses () show the amount of postage required when mailing from the United States and possessions. The first figure is for letters, (first ounce or fraction), and the second figure for post cards or QSL cards.

Manchuria

AC3	(5, 3)	SIKKIM
AC4	(5, 3)	TIBET
AR	(5, 3)	SYRIA
C	(5, 3)	CHINA
CE	(3, 2)	CHILE
CM-CO	(3, 2)	CUBA
CN8	(5, 3)	FRENCH MOROCCO
CP	(3, 2)	BOLIVIA
CR4	(5, 3)	CAPE VERDE ISLANDS
CR5	(5, 3)	PORTUGUESE GUINEA
CR6	(5, 3)	ANGOLA
CR7	(5, 3)	MOZAMBIQUE
CR8	(5, 3)	GOA (Portuguese India)
CR9	(5, 3)	MACAU
CR10	(5, 3)	TIMOR ISLAND (Port.)
CT1	(5, 3)	PORTUGAL
CT2	(5, 3)	AZORES ISLANDS
CT3	(5, 3)	MADERIA ISLANDS
CX	(3, 2)	URUGUAY
D	(5, 3)	GERMANY
EA	(3, 2)	SPAIN
EA6	(3, 2)	BALEARIC ISLANDS
EA8	(3, 2)	CANARY ISLANDS
EA9	(3, 2)	SPANISH MOROCCO
EI	(5, 3)	IRELAND
EK1	(5, 3)	TANGIER ZONE
EL	(5, 3)	LIBERIA
EP, EQ	(5, 3)	IRAN (ex Persia)
ET	(5, 3)	ETHIOPIA
F	(5, 3)	FRANCE
FA	(5, 3)	ALGERIA
FB8	(5, 3)	MADAGASCAR
FD8	(5, 3)	FRENCH TOGOLAND
FE8	(5, 3)	FRENCH CAMEROONS
FF8	(5, 3)	FRENCH WEST AFRICA
FG8	(5, 3)	GUADELOUPE
FI8	(5, 3)	FRENCH INDO-CHINA
FK8	(5, 3)	NEW CALEDONIA
FL8	(5, 3)	FRENCH SOMALILAND
FM8	(5, 3)	MARTINIQUE
FN	(5, 3)	FRENCH INDIA
FO8	(5, 3)	TAHITI
FP8	(5, 3)	MIQUELON & ST. PIERRE IS.
FQ8	(5, 3)	FRENCH EQUATORIAL AFRICA
FR8	(5, 3)	REUNION ISLAND
FT4	(5, 3)	TUNISIA
FU8	(5, 3)	NEW HEBRIDES
FY8	(5, 3)	FRENCH GUIANA
G	(5, 3)	ENGLAND
GC	(5, 3)	CHANNEL ISLANDS
GL	(5, 3)	NORTHERN IRELAND
GM	(5, 3)	SCOTLAND
GW	(5, 3)	WALES
HA	(5, 3)	HUNGARY
HB	(5, 3)	SWITZERLAND
HC	(3, 2)	ECUADOR
HE1	(5, 3)	LIECHTENSTEIN
HH	(3, 2)	HAITI
HI	(3, 2)	DOMINICAN REPUBLIC
HK	(3, 2)	COLOMBIAN REPUBLIC
HP	(3, 2)	PANAMA
HR	(3, 2)	HONDURAS
HS	(5, 3)	SIAM
HZ	(5, 3)	SAUDI ARABIA (HEDJAZ & NEJDI)
I	(5, 3)	ITALY
I6	(5, 3)	ERITREA
I7	(5, 3)	JAPAN
J8	(5, 3)	KOREA
J9	(3, 1)	OKINAWA
K	(3, 1)	UNITED STATES
KA	(5, 3)	PHILIPPINE ISLANDS
KB6	(5, 3)	BAKER, CANTON, ENDERBURY, HOWLAND & PHOENIX ISLANDS
KC4		ANTARCTICA
KG6	(3, 1)	MARIANA ISLANDS (Guam)

KH6	(3, 1)	HAWAIIAN ISLANDS
KJ6	(3, 1)	JOHNSTON ISLAND
KL7	(3, 1)	ALASKA
KM6	(3, 1)	MIDWAY ISLAND
KP4	(3, 1)	PUERTO RICO
KP6	(3, 1)	PALMYRA & JARVIS ISLANDS
KS4	(3, 1)	SWAN ISLAND
KS6	(3, 1)	U. S. SAMOA
KV4	(3, 1)	VIRGIN ISLANDS
KW6	(3, 1)	WAKE ISLAND
KZ5	(3, 1)	CANAL ZONE
LA	(5, 3)	NORWAY
LU	(3, 2)	ARGENTINA
LX	(5, 3)	LUXEMBOURG
LZ	(5, 3)	BULGARIA
NY4	(3, 1)	GUANTANAMO BAY, CUBA
OA	(3, 2)	PERU
OH	(5, 3)	FINLAND
OE	(5, 3)	AUSTRIA
OK	(5, 3)	CZECHOSLOVAKIA
ON	(5, 3)	BELGIUM
OQ5	(5, 3)	BELGIAN CONGO
OX	(5, 3)	GREENLAND
OY	(5, 3)	FAEROES ISLANDS
OZ	(5, 3)	DENMARK
PA, PI	(5, 3)	NETHERLANDS
PJ	(5, 3)	NETH. WEST INDIES
PK1, 2, 3	(5, 3)	JAVA
PK4	(5, 3)	SUMATRA
PK5	(5, 3)	BORNEO (Neth. Indies)
PK6	(5, 3)	CELEBES & MOLUCCA IS., & NETHERLAND NEW GUINEA
PX	(5, 3)	ANDORRA
PY	(3, 2)	BRAZIL
PZ	(5, 3)	SURINAM
SM	(5, 3)	SWEDEN
SP	(5, 3)	POLAND
ST	(5, 3)	SUDAN
SU	(5, 3)	EGYPT
SV	(5, 3)	CRETE & GREECE
TA	(5, 3)	TURKEY
TF	(5, 3)	ICELAND
TG	(3, 2)	GUATEMALA
TI	(3, 2)	COSTA RICA
UAI-3-4-6	(5, 3)	EUROPEAN RUSSIAN SOCIALIST FEDERATED SOVIET REPUBLIC
UA9-Ø	(5, 3)	ASIATIC RUSSIAN S. F. S. R.
UB5	(5, 3)	UKRAINE
UC5	(5, 3)	WHITE RUSSIAN S.S.R.
UD6	(5, 3)	AZERBAIJAN
UF6	(5, 3)	GEORGIA
UG6	(5, 3)	ARMENIA
UH8	(5, 3)	TURKOMAN
UI8	(5, 3)	UZBEK
UJ8	(5, 3)	TADZHIK
UL7	(5, 3)	KAZAKH
UM8	(5, 3)	KIRGHIZ
UN1	(5, 3)	KARELO-FINNISH REPUBLIC
UO5	(5, 3)	MOLDAVIA
UP	(5, 3)	LITHUANIA
UQ	(5, 3)	LATVIA
UR	(5, 3)	ESTONIA
VE	(3, 2)	CANADA
VK	(5, 3)	AUSTRALIA
VK4	(5, 3)	PAPUA TERRITORY
VK7	(5, 3)	TASMANIA
VK9	(5, 3)	TER. OF NEW GUINEA
VO	(3, 2)	NEWFOUNDLAND & LABRADOR
VP1	(5, 3)	BRITISH HONDURAS
VP2	(5, 3)	LEEWARD & WINDWARD ISLANDS (British, Antigua, Grenada, St. Kitts, St. Lucia, St. Vincent, and Dominica.)
VP3	(5, 3)	BRITISH GUIANA
VP4	(5, 3)	TRINIDAD & TOBAGO IS.

VP5	(5, 3)	JAMAICA, CAYMAN, TURKS & CAICOS IS.
VP6	(5, 3)	BARBADOS
VP7	(5, 3)	BAHAMA ISLANDS
VP8	(5, 3)	FALKLAND ISLANDS, South Georgia, South Orkney and South Shetland Islands.
VP9	(5, 3)	BERMUDA ISLANDS
VQ1	(5, 3)	ZANZIBAR
VQ2	(5, 3)	NORTHERN RHODESIA
VQ3	(5, 3)	TANGANYIKA
VQ4	(5, 3)	KENYA
VQ5	(5, 3)	UGANDA
VQ6	(5, 3)	BRITISH SOMALILAND
VQ8	(5, 3)	CHAGOS ISLAND & MAURITIUS
VQ9	(5, 3)	SEYCHELLES
VR1	(5, 3)	GILBERT, ELICE & OCEAN ISLANDS
VR2	(5, 3)	FIJI ISLANDS
VR3	(5, 3)	FANNING ISLAND
VR4	(5, 3)	SOLOMON ISLANDS
VR5	(5, 3)	TONGA (Friendly) ISLAND
VR6	(5, 3)	PITCAIRN ISLAND
VS1	(5, 3)	STRAIT SETTLEMENTS
VS2	(5, 3)	FEDERATED MALAY STATES
VS3	(5, 3)	NON-FEDERATED MALAY STATES
VS4	(5, 3)	BRITISH NORTH BORNEO
VS5	(5, 3)	BRUNEI & SARAWAK
VS6	(5, 3)	HONG KONG
VS7	(5, 3)	CEYLON
VS9	(5, 3)	ADEN & SOCOTRA ISLANDS
VU	(5, 3)	INDIA
VU4	(5, 3)	LACCADIVE ISLANDS
VU7	(5, 3)	BAHREIN ISLANDS
W	(3, 1)	UNITED STATES
XE	(3, 2)	MEXICO
XU	(5, 3)	CHINA
XZ	(5, 3)	BURMA
YA	(5, 3)	AFGHANISTAN
YI	(5, 3)	IRAQ
YJ	(5, 3)	NEW HEBRIDES
YN	(3, 2)	NICARAGUA
YR	(5, 3)	ROUMANIA
YS	(3, 2)	EL SALVADOR
YT, YU	(5, 3)	YUGOSLAVIA
YV	(3, 2)	VENEZUELA
ZA	(5, 3)	ALBANIA
ZB1	(5, 3)	MALTA
ZB2	(5, 3)	GIBRALTAR
ZC1	(5, 3)	TRANSJORDAN
ZC2	(5, 3)	COCONUT ISLANDS
ZC3	(5, 3)	CHRISTMAS ISLAND
ZC4	(5, 3)	CYPRUS
ZC6	(5, 3)	PALESTINE
ZD1	(5, 3)	SIERRA LEONE
ZD2	(5, 3)	NIGERIA
ZD3	(5, 3)	GAMBIA
ZD4	(5, 3)	GOLD COAST & TOGOLAND
ZD6	(5, 3)	NYASALAND
ZD7	(5, 3)	SAINT HELENA
ZD8	(5, 3)	ASCENSION ISLAND
ZD9	(5, 3)	TRISTAN DA CUNHA
ZE	(5, 3)	SOUTHERN RHODESIA
ZK1	(5, 3)	COOK ISLANDS
ZK2	(5, 3)	NIUE
ZL	(5, 3)	NEW ZEALAND
ZM	(5, 3)	WESTERN SAMOA
ZP	(3, 2)	PARAGUAY
ZS	(5, 3)	UNION OF SOUTH AFRICA



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PREFIXES—BY COUNTRIES

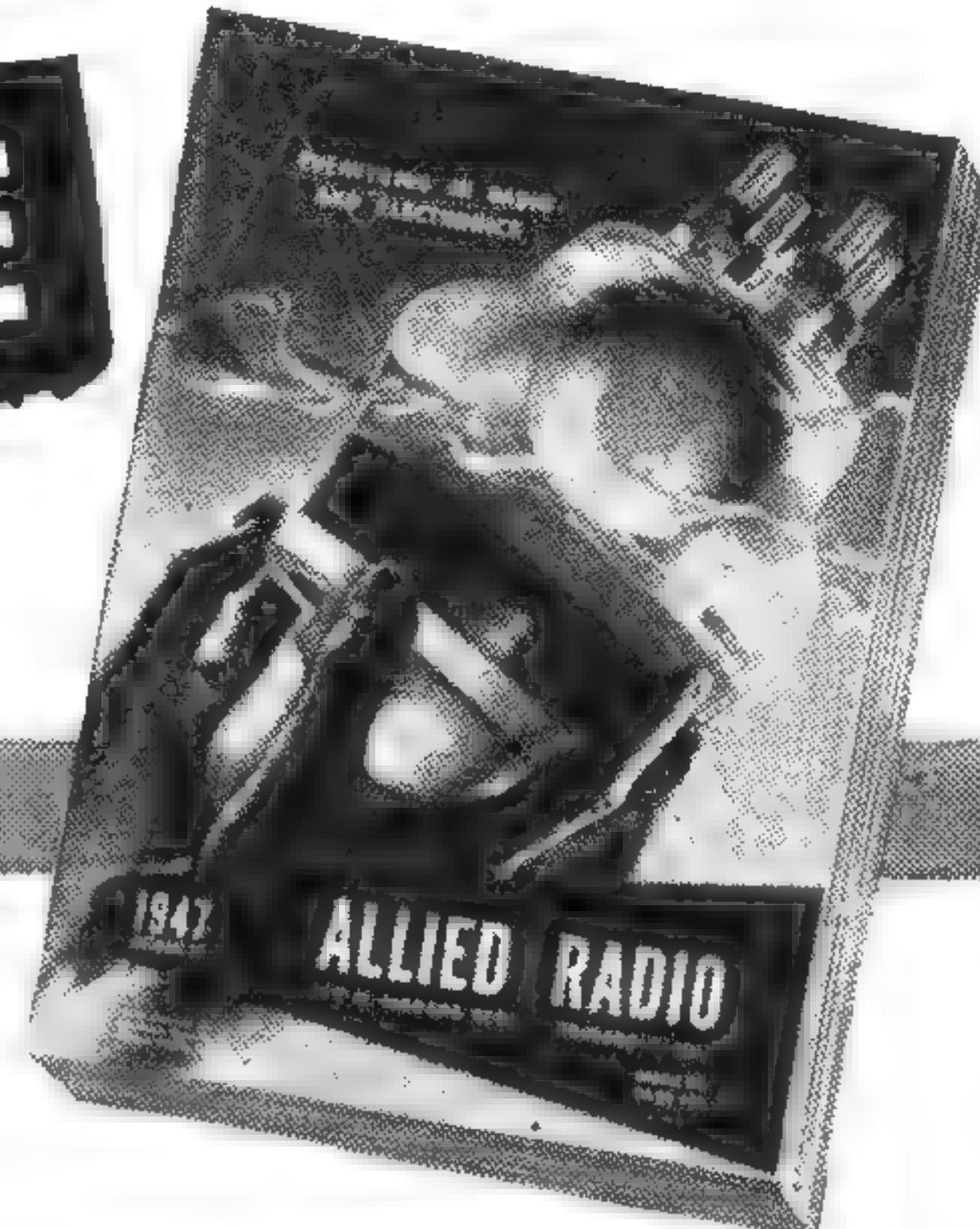
The following countries listed in alphabetical order by country show international radio amateur prefixes. The figures in parentheses () are international air mail postage rates for each half ounce or fraction in effect November 1, 1946. The air mail rate for Alaska, Canada, Canal Zone, Canton Island, Guam, Guantanamo Bay, Hawaii, Johnston Island, Mexico, Midway Island, Puerto Rico and the Virgin Islands is 5 cents per ounce or fraction.

	Cents		Cents		Cents
ADEN	(25)	VS9	GOA (Portuguese India)	(25)	CR8
AFGHANISTAN	(25)	YA	GOLD COAST	(25)	ZD4
ALASKA	(05)	KL7	GREECE	(15)	SV
ALBANIA	(15)	ZA	GREENLAND		OX
ALGERIA	(15)	FA	GRENADE	(10)	VP2
ANDORRA	(15)	PX	GAUDELOUPE	(10)	FG8
ANGOLA	(25)	CR6	GUAM	(05)	KG6
ANTARCTICA		KC4	GUANTANAMO BAY, CUBA		NY4
ANTIGUA	(10)	VP2	GUATEMALA	(10)	TG
ARGENTINA	(10)	LU	HAITI	(10)	HH
ASCENSION I.	(15)	ZD8	HAWAIIAN IS.	(05)	KH6
AUSTRALIA	(25)	VK	HONDURAS	(10)	HR
AUSTRIA	(15)	OE	HONG KONG	(25)	VS6
AZORES IS.	(15)	CT2	HOWLAND I.		KB6
BAHAMA IS.	(10)	VP7	HUNGARY	(15)	HA
BAHREIN IS.	(25)	VU7	ICELAND	(15)	TF
BAKER I.	(05)	KB6	INDIA	(25)	VU
BALEARIC IS.	(15)	EA6	IRAN (ex Persia)	(25)	EP-EQ
BARBADOS	(10)	VP6	IRAQ	(25)	YI
BASUTOLAND	(25)	ZS4	IRELAND	(15)	EI
BELGIAN CONGO	(25)	OQ5	ITALY	(15)	I
BELGIUM	(15)	ON	JAMAICA	(10)	VPS
BERMUDA IS.	(10)	VP9	JAN MAYEN I.		OY
BOLIVIA	(10)	CP	JAPAN		J
BORNEO (Br. North)	(25)	VS4	JARVIS I. (Palmyra Group)		KP6
BORNEO (Neth. Indies)		PK5	JAVA	(25)	PK1, 2, 3
BRAZIL	(10)	PY	JOHNSTON IS.		KJ6
BRITISH GUIANA	(10)	VP3	KENYA	(25)	VQ4
BRITISH HONDURAS	(10)	VP1	KOREA		H/L J8
BULGARIA	(15)	LZ	LABRADOR	(10)	VO
BRUNEI	(25)	VSS	LACCADIVE IS.	(25)	VU4
BURMA	(25)	XZ	LEEWARD IS.	(10)	VP2
CAMEROONS (British)	(25)	ZD2	LIBERIA	(25)	EL
CAMEROONS (French)	(25)	FE8	LIECHTENSTEIN	(15)	HE1
CANADA	(05)	VE	LITTLE AMERICA		KC4
CANAL ZONE	(05)	KZ5	LUXEMBOURG	(15)	LX
CANARY IS.	(25)	EA8	MACAU	(25)	CR9
CANTON I.	(05)	KB6	MADAGASCAR	(25)	FB8
CAPE VERDE IS.	(25)	CR4	MADERIA IS.	(15)	CT3
CAYMAN IS.	(10)	VPS	MALAYA	(25)	VS
CELEBES IS.	(25)	PK6	MALTA	(15)	ZB1
CEYLON	(25)	VS7	MARIANA IS.		KG6
CHAGOS IS.	(25)	VQ8	MARTINIQUE	(10)	FM8
CHANNEL IS.	(15)	GC	MAURITIUS	(25)	VQ8
CHILE	(10)	CE	MEXICO	(05)	XE
CHINA	(25)	C	MIDWAY I.	(05)	KM6
CHINA	(25)	C, XU	MIQUELON & ST. PIERRE IS.	(.07 per oz.)	FP8
CHRISTMAS I.		ZC3	MOLUCCA IS.		PK6
COCOS IS.		ZC2	MOROCCO (French)	(15)	CN8
COLOMBIAN REP.	(10)	HK	MOROCCO (Spanish)	(15)	EA9
COOK IS.		ZK1	MOZAMBIQUE		CR7
COSTA RICA	(10)	TI	NETHERLANDS	(15)	PA, PI
CRETE	(15)	SV	NETHERLAND INDIES	(25)	PK
CUBA	(08)	CM-CO	NETH. WEST INDIES	(10)	PJ
CYPRUS	(25)	ZC4	NEW CALEDONIA	(25)	FK8
CZECHOSLOVAKIA	(15)	OK	NEWFOUNDLAND	(10)	VO
DENMARK	(15)	OZ	NEW GUINEA (Neth.)		PK6
DOMINICA	(10)	VP2	NEW GUINEA (Ter. of.)	(25)	VK4
DOMINICAN REP.	(10)	HI	NEW HEBRIDES		FU8, YJ
ECUADOR	(10)	HC	NEW ZEALAND	(25)	ZL
EGYPT	(15)	SU	NICARAGUA	(10)	YN
ELICE IS.		VR1	NIGERIA	(25)	ZD2
ENDERBURY I.		KB6	NIUE		ZK2
ENGLAND	(15)	G	NORTHERN IRELAND	(15)	GI
ERITREA	(25)	I6	NORTHERN RHODESIA	(25)	VQ2
ETHIOPIA	(25)	ET	NORWAY	(15)	LA
FAEROES IS.	(15)	OY	NYASALAND	(25)	ZD6
FALKLAND IS.	(10)	VP8	OCEAN ISLAND		VR1
FANNING I.		VR3	OKINAWA		J9
FIJI IS.	(25)	VR2	PALESTINE	(25)	ZC6
FINLAND	(15)	OH	PALMYRA IS.	(05)	KP6
FRANCE	(15)	F	PANAMA	(10)	HP
FR. EQUATORIAL AFRICA	(25)	FQ8	PAPUA TERR. (Australian)	(25)	VK4
FRENCH GUIANA	(10)	FY8	PARAGUAY	(10)	ZP
FRENCH INDIA	(25)	FN	PERU	(10)	OA
FR. INDO-CHINA	(25)	FI8	PHILIPPINE IS.	(25)	KA
FRENCH OCEANIANA	(25)	FO8	PHOENIX IS.	(05)	KB6
FRENCH W. AFRICA	(25)	FF8	PITCAIRN I.		VR6
GAMBIA	(25)	ZD3	POLAND	(15)	SP
GERMANY	(15)	D			
GIBRALTAR	(15)	ZB2			
GILBERT IS.		VR1			

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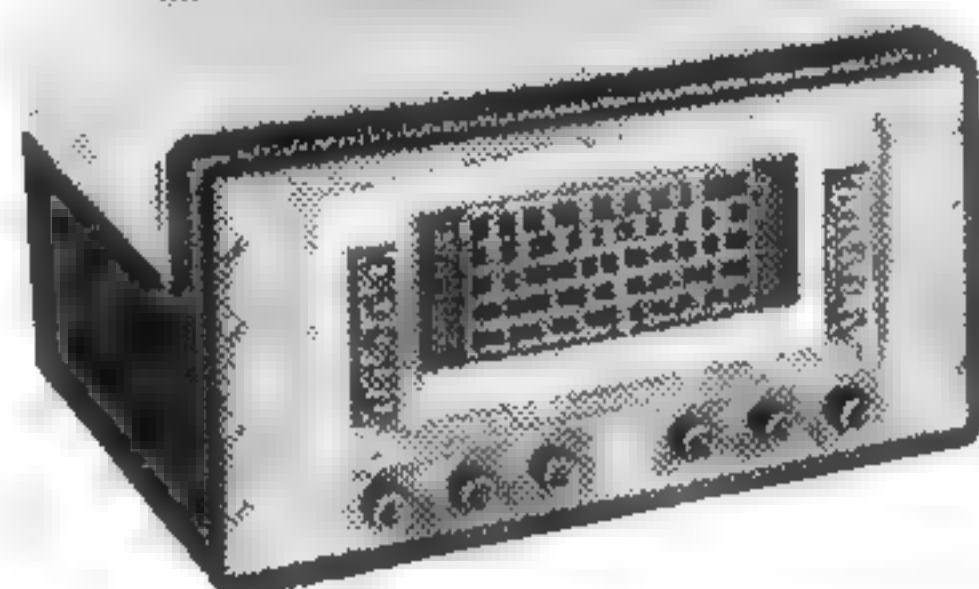
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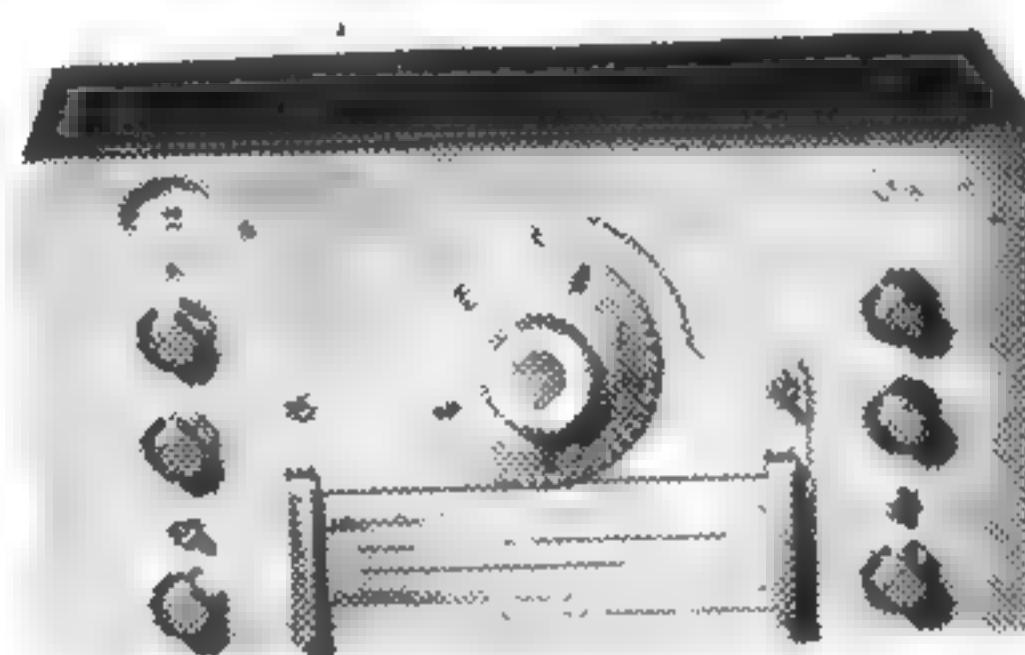
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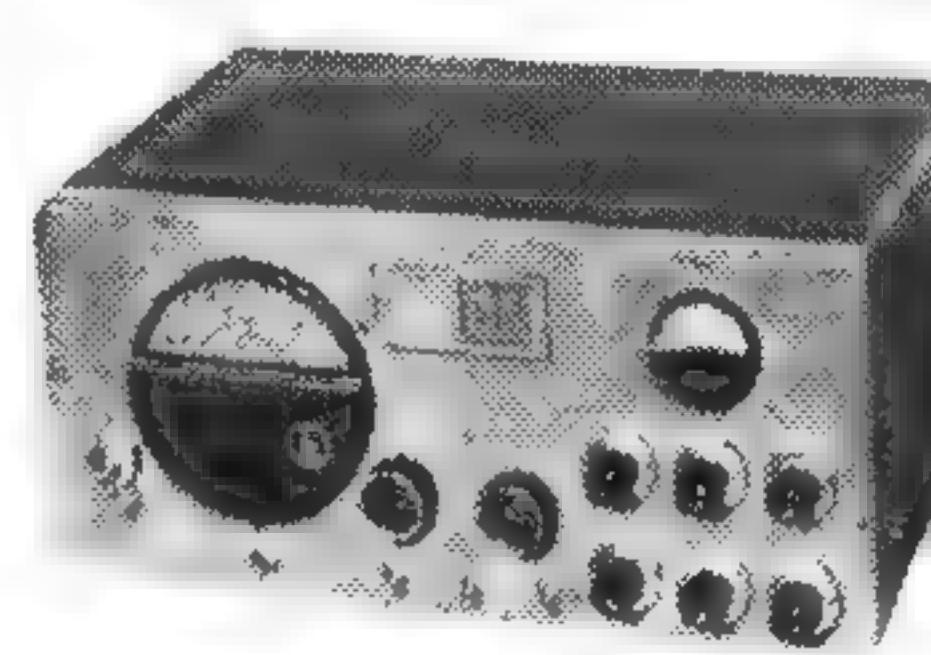
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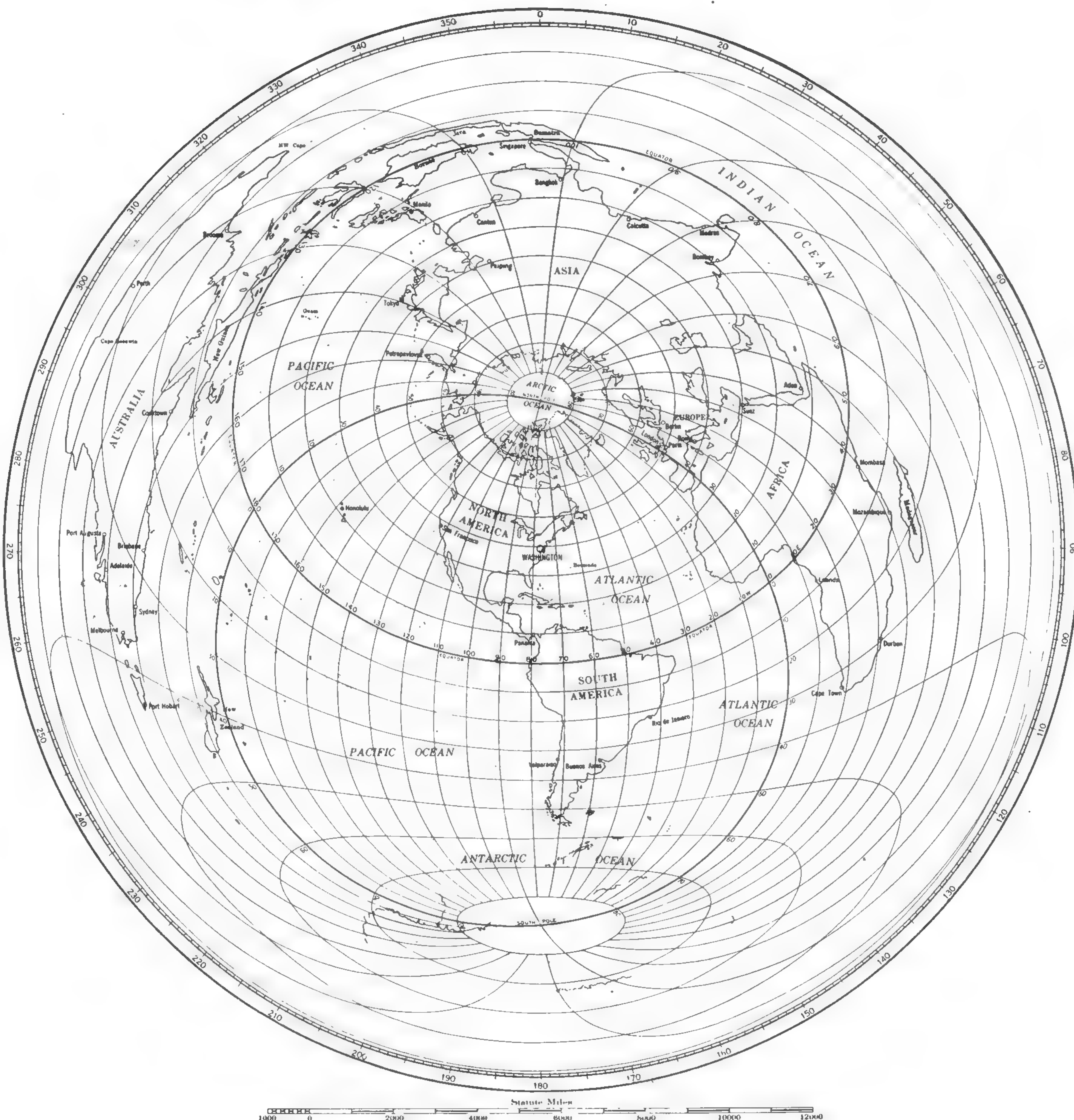
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Great Circle Chart of the World Centered on WASHINGTON, D. C.



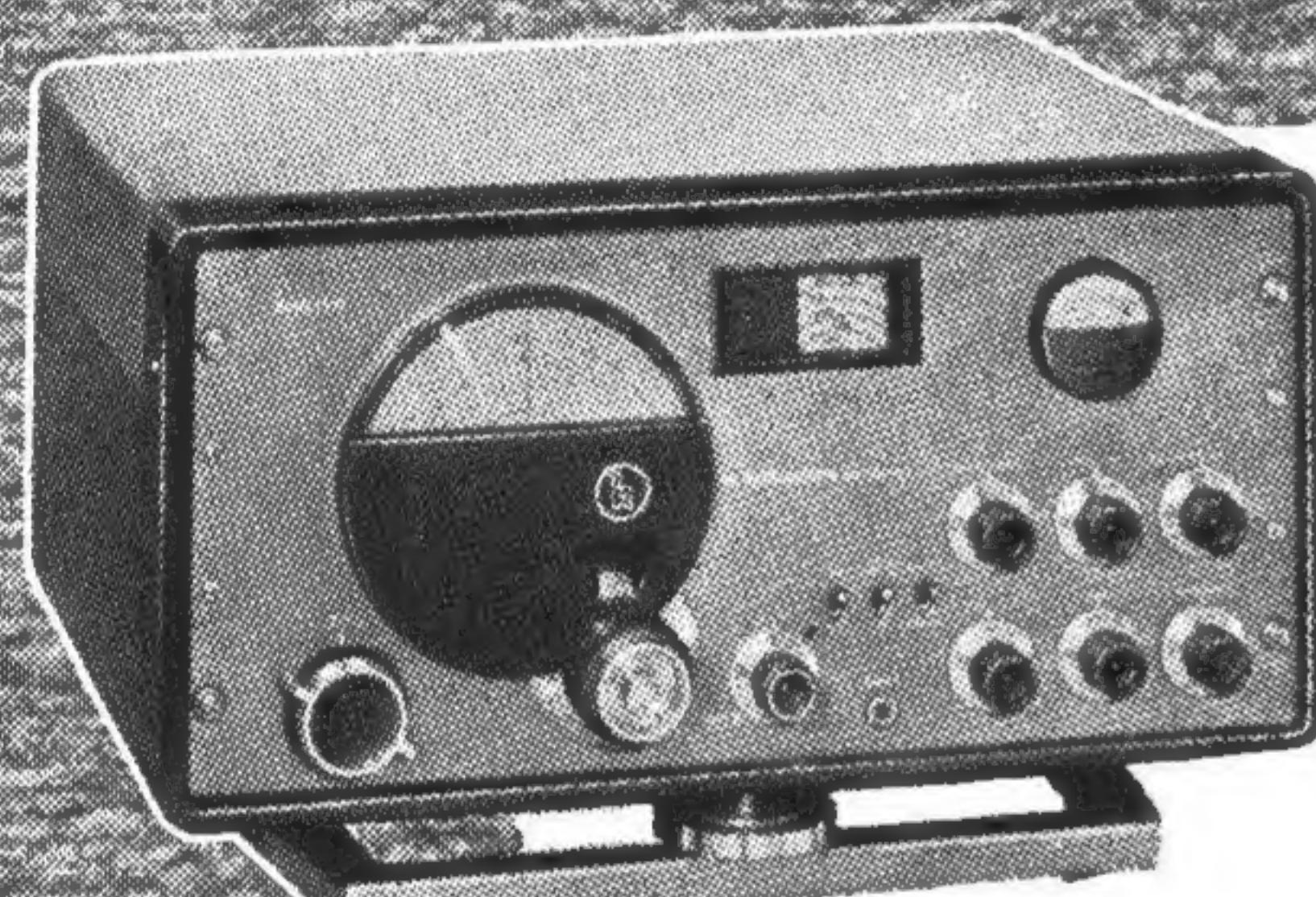
To find the great circle bearing of any point in the world from Washington, D. C., draw a straight line from the center and note the reading in degrees as indicated on the outer scale. The bar scale may be used to determine the approximate distance. This map was prepared by the Hydrographic Office of the U. S. Navy Department.

Going places
(AGAIN)

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3

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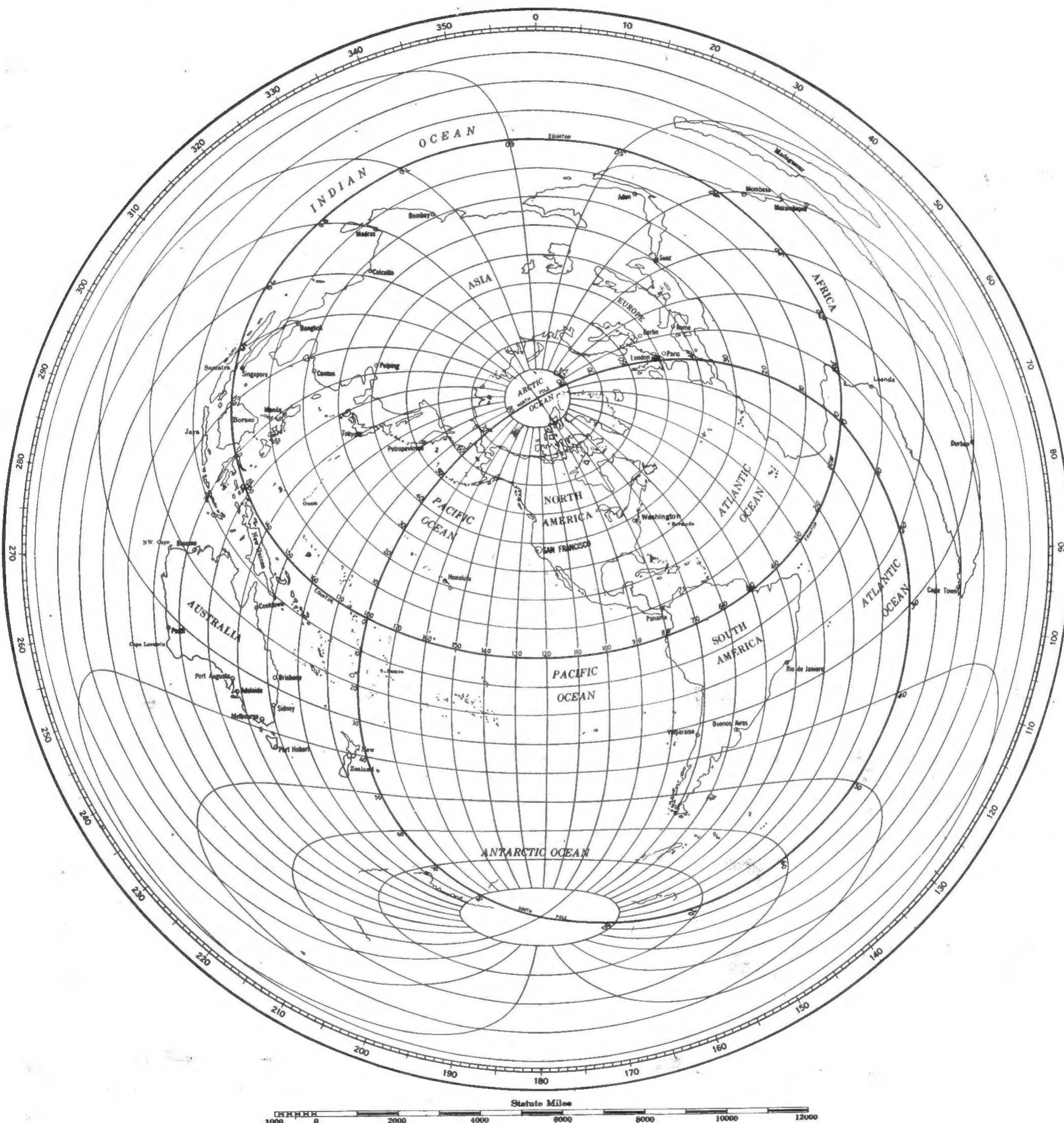
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GREAT CIRCLE BEARINGS IN THE UNITED STATES

ATLANTA, GA.	264	47	24	25	301	343	15	86	269	297	320	7	271	310	251	347	145	306	281	347	154	345	331	321	234	48	64	48	278	27	318	296	289	308	48	84		
BIRMINGHAM, ALA.	82	326	50	31	40	304	356	26	84	268	299	328	17	270	312	246	5	125	314	287	281	10	142	355	338	0	219	52	67	53	278	37	333	298	290	309	53	83
BISMARCK, N. D.	132	137	92	97	115	209	114	105	124	167	205	133	104	198	273	165	119	132	148	150	233	123	135	109	108	131	151	99	111	102	217	106	134	237	249	282	107	119
BOSTON, MASS.	236	241	291	277	247	278	273	267	226	254	275	275	274	262	293	246	263	220	268	253	273	256	207	278	286	249	237	235	219	233	268	258	262	280	295	236	217	
BUFFALO, N. Y.	208	217	291	92	206	273	264	237	192	241	269	268	261	252	290	231	243	191	258	237	267	231	184	274	286	225	219	118	160	134	261	199	248	276	293	159	174	
CHARLESTON, W. VA.	208	223	307	61	24	287	309	359	174	251	282	293	345	260	300	238	293	180	279	251	274	270	174	316	311	245	223	66	108	71	269	31	275	286	282	301	80	143
CHEYENNE, WYO.	108	112	26	76	91	81	81	103	140	187	83	79	189	319	143	90	113	101	119	241	95	119	76	62	104	128	81	92	83	219	84	98	268	262	303	87	100	
CHICAGO, ILL.	161	175	302	82	78	125	272	93	144	221	266	268	80	242	293	210	151	155	245	208	262	157	156	350	308	173	190	91	116	97	254	101	212	274	272	295	106	131
CLEVELAND, OHIO	197	209	297	80	55	179	277	277	176	240	272	275	310	252	293	228	245	180	261	235	268	226	175	290	296	219	214	95	136	105	262	127	250	278	277	296	124	156
COLUMBIA, S. C.	268	267	317	41	10	354	299	329	356	270	295	311	350	271	308	256	326	189	300	279	282	320	174	331	323	297	246	39	53	37	279	7	305	295	290	307	33	85
DALLAS, TEXAS	81	82	349	57	49	61	325	36	50	80	319	15	45	266	325	157	47	97	15	61	280	55	112	32	11	65	115	60	71	61	277	55	40	308	291	315	63	80
DENVER, COLORADO	103	107	22	73	72	87	6	75	77	99	134	74	74	189	325	138	84	109	91	112	246	90	116	70	55	98	124	78	88	80	224	80	91	283	267	308	83	96
DES MOINES, IOWA	134	144	318	80	78	105	271	84	87	123	197	262	81	231	297	187	105	135	197	171	257	116	141	69	5	133	165	87	104	91	247	92	137	273	270	296	97	115
DETROIT, MICH.	188	200	295	86	79	164	273	263	129	168	233	268	268	248	291	222	224	174	254	227	265	208	171	282	292	206	207	100	133	109	258	128	238	275	274	294	124	151
EL PASO, TEXAS	77	78	14	58	54	64	8	50	56	76	79	8	42	53	345	98	57	86	48	71	285	62	97	46	33	68	92	61	69	62	290	59	57	335	298	327	64	75
HELENA, MONTANA	112	116	85	84	88	100	133	97	93	108	134	141	105	92	162	136	101	115	115	122	203	105	119	94	91	111	127	89	98	92	180	94	109	179	224	283	95	104
HOUSTON, TEXAS	64	60	348	50	40	49	329	25	39	67	338	325	6	34	285	327	34	84	3	26	288	40	103	22	5	46	86	52	60	53	289	45	24	314	297	319	5	68
INDIANAPOLIS, IND.	166	185	308	72	58	110	281	332	62	143	234	276	290	41	250	298	220	157	267	226	267	168	158	338	316	188	199	80	107	85	261	80	251	281	277	298	94	127
JACKSONVILLE, FLA.	327	309	324	33	9	1	308	339	0	8	286	304	323	355	282	314	273	340	314	300	288	338	163	341	332	326	271	29	34	28	287	8	323	303	295	312	23	39
KANSAS CITY, MO.	120	129	332	72	67	90	288	60	73	111	196	278	15	66	236	306	184	82	126	157	262	95	134	50	9	113	157	78	93	81	253	79	97	282	275	302	85	105
LITTLE ROCK, ARK.	97	104	335	59	48	65	307	26	48	92	243	300	352	41	260	315	208	43	114	338	276	55	128	21	356	71	158	62	76	64	271	56	22	297	286	309	67	89
LOS ANGELES, CALIF.	81	82	41	62	61	70	52	62	65	79	88	57	60	62	100	19	96	67	87	61	70	94	59	52	76	92	65	71	66	95	67	69	35	319	348	68	78	
LOUISVILLE, KY.	166	190	313	66	47	87	287	339	43	137	242	282	301	26	256	302	227	348	156	239	271	158	342	322	202	205	71	98	75	266	63	278	285	281	301	82	120	
MIAMI, FLORIDA	337	326	329	22	3	355	313	342	356	355	302	310	329	353	291	318	290	342	345	321	315	293	341	342	335	334												



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